This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

## Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

## About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at http://books.google.com/

Digitized by Google

3 2044 106 361 058

MF
1
K95fa

HARVARD UNIVERSITY

LIBRARY

OF THE

GRAY HERBARIUM

Received
Bought
Bd. April 20, 1943

Digitized by Google

Digitized by Google

Digitized by Google

# FILICES AFRICANAE

REVISIO CRITICA OMNIUM HUCUSQUE COGNITORUM CORMOPHYTORUM AFRICAE INDIGENORUM ADDITAMENTIS BRAUNIANIS NOVISQUE AFRICANIS SPECIEBUS EX RELIQUIIS METTENIANIS ADAUCTA.

ACCEDUNT

FILICES DECKENIANAE ET PETERSIANAE.

AUCTORE

**MAXIMILIANO KUHN.**

LIPSIAE: W. ENGELMANN.

MDCCCLXVIII.

Bind ½ black cl.

Digitized by Google

HARVARD UNIVERSITY HERBARIUM.

THE GIFT OF

[illegible]

Digitized by Google

# FILICES AFRICANAE

REVISIO CRITICA OMNIUM HUCUSQUE COGNITORUM CORMOPHYTORUM AFRICAE INDIGENORUM ADDITAMENTIS BRAUNIANIS NOVISQUE AFRICANIS SPECIEBUS EX RELIQUIIS METTENIANIS ADAUCTA.

ACCEDUNT

FILICES DECKENIANAE ET PETERSIANAE.

AUCTORE

MAXIMILIANO KUHN.

LIPSIAE: W. ENGELMANN.

MDCCCLXVIII.

Digitized by Google

# INTRODUCTIO.

Nullam floram ullius terrae continentis tam ignotam esse quam africanam inter omnes constat; e regionibus tamen maritimis insulisque jam magnae collectiones in herbariis europaeis asservantur. E terris maritimis sunt regnum Tunetanum, Algeria, Senegambia, nonnulla loca Guineae superioris, Angola, maxime terra Capensis, regiones quaedam agri Mozambicensis et Zanguebarici, partes Abyssiniae necnon regio Nilotica, quousque in Aegyptiorum ditione est, de quorum flora accuratius certiores facti sumus. Longe aliter res sese habet de flora insularum, quae jam catalogos systematice digestos offert, cuius florae plantas insularum occidentalium accuratius novimus, quam orientalium, ex quibus quaevis expeditio numerum quendam novarum plantarum semper attulit.

Cujus rei novum exemplum etiam nuper expeditio tam infelicis Baronis von der Decken praebuit, quae complures insulas Africae orientalis perquisivit, atque quum multas alias plantas nobis attulit, tum cormophyta*) nonnulla in hac expeditione collecta, quae clarissimi Kerstenii interventu liberali mihi describenda benigne tradita sunt. Haec cormophyta Deckeniana primo loco mihi ad describendum sumpsi eaque systematice digessi et species quidem jam notas nonnullis synonymis additis citavi, novas autem diagnosibus circumscripsi. Quum ad quae loca ea expeditio venerit jam satis notum sit, paucis tantum moneam, species a me des-

*) Vulgo cryptogamae »vasculares«.



Digitized by Google

criptas ex insulis Sechellis, ex parva insula Nossi-beh, prope litus occidentale Madagascariae, ex insula Angasilia vel Comoro, ex insula Zanguebarica, ex vicinitate Mombas et Osi, urbium litoris orientalis Africae, ex monte Kilimandjaro allatas esse. Maximam plantarum partem collegit cl. Kersten, pauca tantum exempla, qui ei successit, beatus Linck; summa omnium collectorum cormophytorum est octoginta species.

Praeter hanc collectionem nonnullae aliae jam ante in his regionibus factae utilitatem quandam mihi attulerunt, quamquam in iis non admodum magnus est numerus plantarum eius generis, quod mihi ad describendum sumpsi. Quae collectiones, quibus in describendis plantis usus sum, fere hae sunt: In insulis Sechellis collegerunt praecipue Pervillé et peregrinator ignotus quidam mense januario et februario a. 1848 (Dr. Krapf vel Isenberg?), cujus collectio nunc in herbario regio berolinensi asservatur. Plantarum copiam insularum Nossi-beh, Mayotte, Mohil, duarum Comorarum cl. Boivin, tertiae Johanna vel Angoana viri cl. Speke et Kirk in Europam secum attulerunt; ex quarta insula, Angasilia, majores collectiones nondum innotuerunt. In insula Zanguebarica jam complures peregrinatores et botanici collectiones fecerunt, inter quos tum Bojer quum popularis noster infelix Roscher nominandi sunt. Ex vicinitate urbium Mombas et Osi montisque Kilimandjaro haec fortasse prima cormophyta innotuerunt, quum haec loca in scriptis botanicis, quantum scimus, nunquam adhuc afferantur.

Altera pars hujus dissertationis efficitur enumeratione cormophytorum, quae a viro Ill. Peters nunc professore Berolinensi in itinere Mozambicensi collecta in botanica operis sui parte non descripta sunt. Nam quum in iisdem regionibus procreata sint ac filices a me descriptae, enumeratio earum maxime ad rem pertinere videbatur.

Sequitur postremo catalogus cormophytorum totius Africae, quem e plantarum copia in herbario regio Berolinensi, Brauniano aliisque asservata confeci. In quibus indagandis describendisque

Digitized by Google

maximi momenti fuerunt herbarium atque libri manuscripti professoris Lipsiensis, beati Mettenii, praematuro fato litteris erepti, quorum usus et perlustratio benignitate eximia veneratissimi praeceptoris mei Alexandri Braun permissa mihi erat, qui etiam observationes suas de generibus Isoëti et Marsilia, qua est singulari benevolentia, mecum communicavit. Quod ad Equiseta attinet auctoritatem amici mei, cl. Milde plane secutus sum atque species africanas, ut ille eas in monographia de hoc genere constituit, enumeravi. Enumerationem clarissimorum collectorum hoc loco praetermitto, quia in singulis speciebus, quantum potui, accuratissima litteraturae documenta dedi collectoresque addidi. Quod ad enumerationem specierum a Willemet, Noronha aliis minus notis botanicis descriptarum in catalogo attinet, monendum est, nonnullas synonyma tantum esse specierum jam prius descriptarum, alias novas videri. Hoc autem comparatione solum speciminum originalium, quae quantum scimus, adhuc exstant, discerni potest.

In ordine generum aptum mihi visum est, certo systemate uti atque in singulis generibus species secundum seriem alphabeticam disponere. Quam ad rem perficiendam systema cl. Mettenii elegi, quod primum in libro suo »Filices horti Lipsiensis« divulgavit, postea autem in aliis libris suis valde emendavit. In hoc systemate permulta parva genera, quae a viris cl. Presl, Fée aliisque constituta erant, in pauca magna conjunguntur, quoad formatio sororum aequalis est, — quae res tot formas in unum genus congregavit, ut complures typos primarios ad explicandas singularum formarum series agnoscere debeamus. Illorum clarissimorum virorum distributio, quae imprimis modum fructificationis et nervaturae filicum respicit, parvi autem momenti existimat habitum, non respondet naturali distributioni, secundum quam primo loco habitus atque crescendi rationes, deinde demum fructificatio observandae sunt. Ita generibus Pteridis, Aspidii, Polypodii, Aspleni in circumscriptione, quae nunc exstat, complura satis distincta genera comprehenduntur, quae ex distributione naturali facile ita secerni



Digitized by Google

possint, ut circuitum formarum accurate definitum praebeant. Quod imprimis valet in genere Phegopteridis, quarum species quasi per vim a proximis cognatis, quae nunc in genere Aspidio sunt, diremtae sunt. Mentionem faciam solum Phegopteridis cochleatae et pycnolepidis, quae in distributione naturali juxta Aspidium vestitum ponendae sint, ita ut in quibusdam generibus indusii absentia vel praesentia non nisi ad vicinas species secernendas adhiberi possit. Forma atque dispositio sororum in hac distributione priorem auctoritatem servent.

Postremo pauca de distributione geographica cormophytorum africanorum dicam, in qua primum quidem a generalibus numerorum rationibus proficiscendum nobis est, ut rationem, quae inter cormophyta atque anthophyta et terrae partium et singularum regionum intercedat, cognoscamus.

Frustra adhuc in literatura botanica numerum omnium cormophytorum quaesivi, quam ob rem ipse hanc rationem computavi. Secutus sum systema Mettenianum, in quo quinque familiae et 79 genera enumerantur. Quod systema quum nunc ad finem quendam pervenerit, non alienum esse mihi videbatur, hoc loco ordines et genera enumerare, sicut ex omnibus ejus libris et systematicis et anatomicis evaserunt.

## Cormophyta.

### Fam. I. Filices.

#### Ordo. I. Hymenophyllaceae.

Trichomanes, Hymenophyllum.

#### Ordo. II. Loxsomaceae.

Loxsoma*).

#### Ordo. III. Polypodiaceae.

Acrostichum, Hymenolepis, Chrysodium, Polybotrya, Lomariopsis, — Monogramme, Vaginularia, Vittaria, Antrophyum, Platycerium, Taenitis, Gymnogramme, — Llavea, Allosorus, Adian-

*) Adn. Cf. Bommer. Monographie de la classe des fougères (1867). pag. 88. 100.

Digitized by Google

tum, Lindsaya, Dictyoxiphium, Cheilanthes, Pteris, — Blechnum, Woodwardia, Camptosorus, Scolopendrium, Micropodium, Asplenum, Ceterach, — Hypolepis, Phegopteris, Aspidium, Oleandra, Cystopteris, Woodsia, Onoclea, Diacalpe, — Polypodium, — Nephrolepis, Didymochlaena, Davallia, Dennstaedtia, Microlepia, Saccoloma.

Ordo. IV. Cyatheaceae.

Plagiogyria, Dicksonia, Cibotium, Alsophila, Hemitelia, Cyathea, Matonia.

Ordo. V. Parkeriaceae.

Ceratopteris.

Ordo VI. Gleicheniaceae.

Platyzoma, Stromatopteris, Gleichenia.

Ordo. VII. Schizaeaceae.

Lygodium, Schizaea, Aneimia, Mohria.

Ordo. VIII. Osmundaceae.

Todea, Osmunda.

Ordo. IX. Marattiaceae.

Angiopteris, Marattia, Kaulfussia, Danaea.

Ordo. X. Ophioglossaceae.

Ophioglossum, Helminthostachys, Botrychium.

Fam. II. Equisetaceae.

Equisetum.

Fam. III. Lycopodiaceae.

Psilotum, Tmesipteris, Lycopodium, Phylloglossum.

Fam. IV. Selaginellaceae.

Selaginella, Isoëtes.

Fam. V. Rhizocarpeae.

Pilularia, Marsilia, Salvinia, Azolla.

Ex meis disquisitionibus hi specierum numeri sequuntur:

| | | |
|---|---|---|
| Hymenophyllaceae . . . | 200 | spec. |
| Loxsomaceae . . . . . . | 1 | ,, |
| Polypodiaceae . . . . . | 2821 | ,, |

Digitized by Google

| | | |
|---|---|---|
| Cyatheaceae . . . . . . | 197 | spec. |
| Parkeriaceae . . . . . | 2 | ,, |
| Gleicheniaceae . . . . | 38 | ,, |
| Schizaeaceae . . . . . | 66 | ,, |
| Osmundaceae . . . . . | 10 | ,, |
| Marattiaceae . . . . . | 32 | ,, |
| Ophioglossaceae . . . . | 27 | ,, |
| Equisetaceae . . . . . | 25 | ,, |
| Lycopodiaceae . . . . . | 107 | ,, |
| Selaginellaceae . . . . | 301 | ,, |
| Rhizocarpeae . . . . . | 58 | ,, |

Quibus ex rationibus perspicitur, numerum omnium cormophytorum 3685 esse, — qui numerus non multum absit, quin ad veritatem accedat, quum locupletissimum herbarium beati Mettenii recensu habito circiter 3500 species contineat. In eius numeri locum, ut computatio magis expediatur numerum, ut ita dicamus rotundum, 3700 specierum substituemus.

Quo modo autem phanerogamae plantae ad hunc numerum sese habent? Alph. De Candolle in libro suo praeclarissimo (Géographie botanique raisonnée. vol. I, p. 516) phanerogamarum numerum 59357 esse existimat, unde perspicitur, circiter sena cormophyta in centenas phanerogamas cadere. Si cum cl. Lindley (Phytologist. 1846. p. 594) 81000 phanerogamarum species statuamus, $4^1/_2$ tantum in centenis efficiantur, — qui numerus, quum cormophyta tam divulgata sint, nimis exiguus esse videtur. Plantae enim cryptogamae vasculares per omnes regiones orbis terrarum divulgatae sunt, sed ita ut a polis ad regiones aequatoriales numerus semper crescat atque in his tropicis regionibus, si humoris atque umbrae conditiones adsunt, maximam divulgationem assequantur. Quodsi rationem anthophytorum et cormophytorum, quae in singulis terrae continentibus nascuntur, constitueremus aeque inaccuratam summam omnium assequeremur, quae tantum in regionem valde definitam quadraret, quia et Asia et America

Digitized by Google

per complures zonas sese extendunt, in quibus rationes inter 1 et 10 in centenis differunt et certos numeros anthophytorum singularum terrae continentium Europa*) excepta nondum habemus. Multo igitur aptius est atque characteribus vegetationis multo magis respondet singularum tantum regionum rationes computare.

Ex catalogo nostro apparet 59 esse cormophytorum genera, quae in flora africana occurrant. Desunt igitur in Africa 20 genera quae per ceteras terrae partes ita distributa sunt, ut America endemica genera Llaveam, Dictyoxiphium, Saccoloma, Danaeam; Asia Vaginulariam, Micropodium, Matoniam, Kaulfussiam, Helminthostachyn; Nova Hollandia Phylloglossum; Polynesia Loxsoma, Stromatopteridem, Tmesipteridem habeat. In Asia et America inveniuntur Camptosorus, Plagiogyria, Cibotium, quod in Polynesia quoque occurrit. Genera Allosorus, Onoclea, Woodsia in diversis zonis per Asiam, Americam, Europam divulgata sunt. Res commemoratione maxime digna est, tota in Africa adhuc desiderari genus Botrychium, quod in omnibus terrae partibus et in diversissimis climatibus inveniatur. Quodsi vidimus Americam 4, Asiam 5, Polynesiam 3 genera endemica habere, in Africa 2 tantum et monotypica quidem, Monogramme**) et Mohria inveniuntur.

Jam de numero specierum videamus. Omnia africana cormophytorum genera 683 species praebent, ex quibus 156 species adhuc solum in terra continenti, 198 in continenti atque insulis, 329 in insulis solis collectae sunt, qui postremus numerus explicatur et imperfecta regionum interiorum notitia, in quibus sine dubio multae species adhuc ex insulis solis notae reperientur, et eo, quod tropica vel subtropica insularum flora semper plures endemicas species praebet quam continens terra.

*) Cl. Nyman in catalogo plantarum Europaearum et in supplemento 10918 species anthophytorum enumerat, unde, si 123 cormophyta statuimus, $1^1/_8$ in centenis phanerogamis efficitur.

**) Reliquae enim species generis, Monogrammes, quas cl. Hooker in libris: Species filicum. vol. V. p. 121 sqq. enumerat, cum Taenitide et Vaginularia conjungendae sunt.

Digitized by Google

Si hanc africanarum specierum summam cum universo cormophytorum numero comparamus, Africa $18^1/_6$ in centenis habet, quum Europa, in qua ut supra vidimus 123 cormophyta exstant, tantum $3^1/_3$ in centenis habet. Ex his 683 speciebus in Africa sola colliguntur 458, quum 225 species etiam per alias orbis terrarum partes divulgatae sunt et hoc quidem modo distribuuntur:

| Species africanae inveniuntur quoque in: | Asia | America | Polynesia | Europa | N. Hollandia |
|---|---|---|---|---|---|
| America | — | 35 | — | — | — |
| Europa | — | — | — | 24 | — |
| Asia | 51 | — | — | — | — |
| N. Hollandia | — | — | — | — | 5 |
| Polynesia | — | — | 7 | — | — |
| Europa et Asia | 13 | — | — | 13 | — |
| Asia et America | 15 | 15 | — | — | — |
| Asia et Polynesia | 30 | — | 30 | — | — |
| Nova Hollandia et America | — | 3 | — | — | 3 |
| America et Polynesia | — | 3 | 3 | — | — |
| Europa, America, N. Hollandia | — | 2 | — | 2 | 2 |
| Europa, Asia, America | 10 | 10 | — | 10 | — |
| Asia, America, N. Hollandia | 1 | 1 | — | — | 1 |
| Asia, Polynesia, America | 9 | 9 | 9 | — | — |
| Polynesia, America, N. Hollandia | — | 1 | 1 | — | 1 |
| Europa, Asia, Polynesia | 2 | — | 2 | 2 | — |
| Asia, Polynesia, N. Hollandia | 8 | — | 8 | — | 8 |
| Asia, Polynesia, America, N. Hollandia | 5 | 5 | 5 | — | 5 |
| Europa, Asia, America, Polynesia | 2 | 2 | 2 | 2 | — |
| Europa, Asia, America, Polynesia, N. Hollandia | 1 | 1 | 1 | 1 | 1 |

Ex hoc conspectu sequitur, ut africanae species inveniantur in Asia 147, in America 87, in Polynesia 68, in Europa 54, in Nova Hollandia 26. Singula quoque genera et species eodem modo pro-

Digitized by Google

ponere potuissemus, ita ut divulgatio singularum specierum clarius apparuisset; sed ab hoc consilio desistendum nobis fuit, quum tam amplus conspectus spatio nobis dato repugnet.

Nunc distributionem cormophytorum per singulas Africae regiones breviter perlustremus. Et primum quidem in regione mediterranea omnia cormophyta, quae in Europa australi exstant, reperimus. Peculiares species hujus regionis sunt Isoëtes Perralderiana, quae sola in Algeria invenitur, Marsilia aegyptiaca, Aspidium unitum. — In parte occidentali terrae continentis sequitur regnum Maroccanum et litora magni deserti, de quarum regionum flora perpauca scimus. Deinde Senegambia, Sierra Leone, Guinea superior et inferior sequuntur, terrae a vigesimo gradu latitudinis septentrionalis ad vigesimum gradum latitudinis meridionalis patentes, in quibus adhuc septem cormophyta, quae per totum districtum sese extendunt, cognovimus. Cl. De Candolle (Géogr. bot. rais. I, 478) omnes has terras in partes tres divisit. Prima earum constituitur Senegambia, magno deserto, insulis Caboverdicis, quae tamen ut postea demonstrabimus hoc loco excludendae sunt. Ex Senegambia 23 species cognovi, inter quas quatuor Marsiliarum species solae endemicae sunt, sed hic numerus verisimiliter multo minor vero est, quum multae eius terrae partes parum vel nihil cognitae sint. Proxima regio in cl. De Candollei libro Guinea superiore et Sudan usque ad lineam aequatorialem conficitur. Ex his regionibus majorem plantarum copiam habemus, quam ex Senegambia; singulae hujus regionis partes sunt Sierra Leone, littora maritima a promontorio Palmas usque ad flumen Niger, montes Cameroon, insulae Fernando Po, St. Thomae, Principis, in quibus inter 152 cormophytorum species 70 circiter endemicas cognovimus, ex quo tamen endemicarum specierum numero, ut postea videbimus, major pars insulis obvenit. Si ex sola cormophytorum distributione conjecturam de geographicis plantarum regionibus facere permissum esset, flumen Niger finem inter Guineam superiorem et inferiorem faceret, quum major specierum numerus, qui in montibus Cameroon

Digitized by Google

insulisque jam notatis colligitur, etiam in Congo et Angola reperiatur, sed in Guinea superiore desit.

Tertia et ultima regio Africae occidentalis conficitur terris Congo et Angola secundum cl. Alph. De Candolle, in qua 89 cormophytorum species et inter has 19 endemicae inveniuntur. Qui numerus imperfectam nostram notitiam terrarum continentium Africae satis demonstrat, quum summam universam cormophytorum hujus tropicae regionis sine dubio 400 minimum species esse existimandum sit. Quem numerum vero majorem esse inde probabile est, quod Mettenius in prodomo filicum multo minoris Novo-Granatensis terrae 450 species enumerat. Deinde sequitur inter Angola et Promontorium Bonae Spei regio omnino ignota. Tum terra capensis et natalensis, in qua Pappe et Rawson in Synopsi filicum Africae australis 176 species cormophytorum enumerant, inter quas nonnullae diversis nominibus bis indicantur atque aliae nominantur, quae aut varietates tantum habendae sunt, aut in terra africana omnino non crescunt, ita ut in his terris 161 species putandae sint, quarum 56 in flora capensi endemicae sunt. Enumerationem specierum endemicarum in singulis terris omisi, quippe quae ex catalogo nostro jam eluceat. Viri ill. Drège et E. Meyer (Zwei pflanzengeogr. Dokumente p. 17) in terra capensi et natalensi 6595 plantas phanerogamas enumerant, qui numerus cum cormophytorum comparatus $2^1/_2$ in centenis efficit, quam rationem in Abyssinia similem esse inveniemus. In terrra continenti deinde sequitur terra Mozambicensis, Zanguebarica, litora maritima usque ad promontorium Guardafui porrecta, quae ut ex paucis collectionibus, quae adhuc exstant, vidimus floram cormophytorum ab India insulisque Sundaicis non multo diversam praebent. Multo autem accuratius de flora regionis niloticae et abyssinicae instructi sumus. Cl. Schweinfurth (Beiträge zur flora Aethiopiens) in catalogo 3880 anthophyta et 51 cormophyta enumerat, quo ex numero $1^1/_2$ in centenis efficitur. Sed hic numerus plane mutatur, si consideramus, ab hac summa plantas nubicas et aegyptiacas detrahendas

Digitized by Google

esse, quum in his regionibus crescendi conditiones cormophytis omnino fere negatae sint. Restant igitur regiones Nili albi et Abyssiniae, in qua, si ea, quae cl. Schweinfurth nobiscum communicavit, sequimur, 2350 anthophyta crescunt, quae cum 51 cormophytis comparata, $2^1/_8$ in centenis efficiunt, — qui numerus in regionibus tropicis nimis exiguus esse mihi videtur, quum in Germania septentrionali $2^1/_2$ cormophyta in centenis anthophytis inveniuntur. Plantae endemicae hujus regionis sunt quinque.

Haec de cormophytis terrae continentis; videamus iam de insulis. Jam supra commemoravi, omnem fere insularum floram multo locupletiorem cormophytis esse quam aeque magnam partem terrae continentis, ita ut in insula Tristan d'Acunha cormophytorum numerus anthophyta fere adaequet.

Insulae, quae in oceano atlantico a linea aequatoriali versus septentrionem spectant, in universum eadem genera ac species cormophytorum praebent. In insula Madeira adhuc inventa sunt 51 cormophyta, inter quae 4 (Phegopteris Drepanum, Aspidium falcinellum, frondosum, elongatum) endemica sunt. Secundum Cl. Hooker in Flora Nigritiana p. 78 summa omnium anthophytorum in insula Madeira crescentium est 653, quae cum cormophytis comparata $7^3/_4$ in centenis phanerogamis efficiunt. Minorem autem numerum cormophytorum in insulis Canariensibus invenimus, in quibus 43 species tantum crescunt, sed multo plures anthophytorum. Una tantum species (Asplenum Newmanni) aliis locis nondum collecta est. Si viros ill. Webb et Berthelot (Phytogr. canariens.) sequimur in insulis canariensibus 974 species anthophytorum crescunt, unde $4^1/_2$ cormophyta in centenis efficiuntur, sed cum illi multas species a cl. Buch commemoratas plane omiserint, hic numerus rejiciendus videtur, quum praesertim vir ill. C. Bolle, qui has regiones accuratius pervestigavit, numerum specierum 2000 esse existimet, unde $2^1/_5$ cormophyta in centenis phanerogamis efficiantur.

Insulae Caboverdicae, quas cl. De Candolle cum plantarum

Digitized by Google

senegambica regione conjungit secundum cl. Bollei opinionem paucas species illius regionis praebent; in regionibus enim humilioribus plantae crescunt, quae per multas terras tropicas divulgatae sunt, in altioribus autem flora insulis canariensibus simillima invenitur. Quae res eo fit certior, quod ex tropicorum cormophytorum numero, quae in Senegambia collecta sunt, ne una quidem species in insulis Caboverdicis adhuc, quoad cognovi, inventa est. Habemus in his insulis 32 species, ex quibus Aspidium Grunowii solum endemicum est. Vir Ill. Schmidt (Flora der Capverdischen Inseln) 420 anthophytorum species harum insularum enumerat, sed ad veritatem propius accedere videtur numerus 600 specierum, quem cl. Bolle benigne mecum communicavit; hoc modo igitur $5\frac{1}{3}$ in centenis phanerogamis efficiuntur. Commemoratione maxime dignum est, quod in his insulis secundum virum ill. C. Bolle non numerus specierum, sed exemplorum praevaleat. Itaque vasti districtus solis cormophytis obtecti sunt, quam rem simili modo in Nova Seelandia reperimus, quae filicibus suis maxime abundantibus exstinctum cormophytorum in formatione lithanthracum principatum in animum nobis revocat.

Jam si ad insulas oceanicas hemisphaerii australis nos convertimus, multo aliter numerorum ratio ibi se habet.

Ac primum quidem insula Ascensionis inter 12 cormophyta 5 endemicas species habet atque secundum Lesson et Richard (Voyage de l'Astrolabe) in tota insula 39 anthophyta tantum inveniuntur, unde $30\frac{1}{2}$ in centenis phanerogamis efficiuntur. Ex insula St. Helenae deinde 30 species cormophytorum innotuerunt, inter quas 10 nullis aliis locis adhuc inventae sunt. Cl. Roxburgh (in Beatson Tracts. of St. Helena p. 295 sqq.) enumerat 25 tantum species, sed Antomarchi (Derniers moments de Napoleon vol. II) 43, qui numerus mihi maxime dubius esse videtur. Enumeratio quodammodo accurata anthophytorum in insula crescentium non exstat, quum et magna pars plantarum indigenarum introductis capris silvisque caesis extincta sit et catalogi virorum illustrissi-

Digitized by Google

morum Roxburgh, Antomarchi, Pritchard*) copiam plantarum commemorent, de quibus nescimus, utrum in insula indigenae an ex aliis terris introductae sint. — Multo certius de insula Tristan d'Acunha instructi sumus, in qua cormophyta fere anthophyta adaequant. Inventae sunt adhuc inter 30 species cormophytorum 7 endemicae. Numerus anthophytorum secundum Thouars (Mélanges et Voyages) et Carmichael (Transact. Linn. Soc. vol. XII, p. 483) 33 est, ita ut $90^3/_4$ in centenis efficiantur. — Dolendum est, quod ex insulis Fernando Po, St. Thomae, Principis catalogi phanerogamarum nondum exstant, ex quibus rationes cormophytorum et anthophytorum constituere possimus. Ex insula Fernando Po innotuerunt 84 species et 12 endemicae, ex insula Principis 18 et 2 endemicae, ex insula St. Thomae 18 et una species endemica. Hae insulae omnino eandem fere filicum vegetationem ac vicina terra continens praebent, in qua regione floram montium Cameroon accuratius nuperrime cognovimus.

Nunc ad insulas Africae orientalis transeamus. Omnes hae insulae, ut Mascarenae, Madagascaria cum insulis St. Mariae et Nossi-beh, Comorae, Sechellae fere eandem floram habent, quae multis indicarum plantarum formis intermixta est. Plurimum de insulis Mauritii et Borboniae edocti sumus, multo minus de ceteris. Jam cl. Bojer (Hortus Mauritianus 387 sqq.) omnia cormophyta, quae in insula Mauritii crescunt, enumeravit et 220 species statuit, sed inter has nonnullas species, quae numquam in insula collectae sunt, alias bis diversis nominibus commemoratas. Ex investigationibus meis 192 indigenas earumque 48 endemicas species statuendas esse crediderim. Si cum cl. Bojero 725 anthophyta sumimus (qui numerus nimis exiguus esse mihi videtur) $26^1/_2$ cormophyta in centenis phanerogamis conficiuntur. Ex reliquis insulis africanis nulli accurati plantarum catalogi exstant, ex quibus rationes anthophytorum et cormophytorum constituere possimus. Jam sequitur

*) Pritchard (Alphabet. list of plants of St. Helena) enumerat 31 tantum anthophyta indigena et 25 cormophyta.

Digitized by Google

hoc loco cormophytorum numerus, quem statuere potui, reliquarum insularum et summa omnium (A) et species endemicae (B) *).

| | | A. | B. |
|---|---|---|---|
| | Ins. Borboniae . . . . . | 220 | 96 |
| | Madagascaria . . . . . . | 144 | 37 |
| | Ins. Nossi-beh . . . . . | 26 | 3 |
| | Ins. Comorae . . . . . . | 75 | 5 |
| Ins. Comorae | Ins. Mayotte . . . . . . | 32 | — |
| Ins. Comorae | Ins. Johannae. . . . . . | 26 | — |
| Ins. Comorae | Ins. Angasilia . . . . . . | 21 | — |
| Ins. Comorae | Ins. Mohil . . . . . . . | 2 | — |
| | Ins. Sechellae . . . . . | 30 | 6 |

Perlustrata postremo universa cormophytorum africanorum flora, regionem Africae mediterraneam eadem cormophyta quae Europa australis, praebere apparet. In littore occidentali a flumine Senegal usque ad agrum Mossamedensem africanas formas americanis intermixtas videmus. Terra capensis, si species endemicas florae africanae omittimus, formas habet, quae in omnibus regionibus subtropicis occurrere solent; praeterea autem rem commemoratione maxime dignam, ut in Proteaceis, animadvertimus, haud parvum numerum cormophytorum capensium in Nova Hollandia reperiri. Regiones orientales Africae insulaeque adjacentes praebent species, quae etiam in aliis terris, quas oceanus indicus alluit, exstant.

Accuratius inquirere in singularum specierum distributionem, quae multas magni momenti res offert, hoc loco nobis non permissum est; id solum monendum est, rationes separatae specierum geographicae distributionis, ut cl. De Candolle (Géogr. bot. rais. vol. II, p. 1031) indicavit in phanerogamis, etiam in cormophytis

*) Magnopere doleo, quod libro: »Bulletin de la société d'acclimation et d'histoire naturelle de l'île de la Réunion«, uti non potui, in quo cl. P. Bories catalogum filicum Borbonicarum publici juris fecit; sed hic liber in urbe nostra non exstabat.

Digitized by Google

occurrere, qua in re commemorationem facio Aspleni pumili, quod in America centrali australique et in Abyssinia colligitur, vel Pteridis pedatoidis in Brasilia et in insulis Mascarenis, vel Gymnogrammes serrulatae in Africa occidentali et in India orientali insulisque Sundaicis, vel Antrophyi Boryani in insulis Mascarenis et in insula Tahiti, vel Aspidii Pica in Mascarenis et in insula Ualan etc.

Postremo gratissimum nobis atque religiosissimum est omnibus, qui in hoc opusculo elaborando nos adjuverunt, praecipue illustrissimo praeceptori veneratissimo Al. Braun, qui mirabili semper comitate utilissimoque suo consilio studiis nostris favebat gratias agere quam plurimas.

Digitized by Google

# Filices Deckenianae.

## 1. Polypodiaceae R. Br.

### Acrostichum L.

Acrostichum hybridum Bory.

Bory voy. III. 96. Sw. syn. f. 11. W. sp. V. 107. Fée Acrost. 40. t. 9. f. 4. gen. fil. 43. Hk. spec. V. 210. Ettingh. farn. 4. t. 4. f. 6.

β. Vulcani Leperv. in Fée Acrost. 41. t. 9. f. 3. Hk. spec. V. 211.

**Ins. Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnam 6000 ped. et inter 6000 atque 9000 ped. Majo. 1864. leg. Kersten. no. 1. 2.**

Acrostichum splendens Bory.

Bory in W. sp. V. 104. Fée Acrost. 60. t. 21. f. 2. gen. 43. Hk. sp. V. 239 (partim).

var. Angasiliensis.

Differt a forma typica paleis rhizomatis nigricantibus, nitidissimis, lanceolatis, longe acuminatis, sparse dentatis, dentibus obtusis, brevissimis.

**Ins. Comorae. In monte ignivomo insulae Angasiliae 6000—9000 ped. Majo. 1864. leg. Kersten. no. 3.**

Acrostichum viscosum Sw.

Sw. syn. 10. 193. W. sp. V. 103. Fée Acrost. 45. Hk. sp. V. 220. Ettingh. farn. 3. t. 1. f. 15. t. 2. f. 1.

var. salicifolium (Klf.) Klf. en. 58.

**Ins. Comorae. In insulae Angasiliae monte ignovomo 3600—6000 ped. Majo. 1864. leg. Kersten. no. 4.**

Acrostichum Deckenii.

Rhizoma repens paleis nigricantibus, nitidissimis, lanceolatis, acuminatis, laciniatis, laciniis longe subulatis dense vestitum;

Digitized by Google

folia disticha siccitate alutacea, sterilium petiolus 13—14″ longus, bisulcatus, paleis ferrugineis, ovatis, acutis, dense laciniatis, longissime subulatis haud sparse obsitus, infra hinc inde glandulosus; lamina 9—12″ longa, 1″ lata, lanceolata, utrinque acuminata, paleis ferrugineis, ovatis, valde dilaceratis supra sparse infra densius obsita; nervi 1—2‴ distantes subimmersi, liberi rarissime hinc inde arcu intramarginali conjuncti, simplices vel bifurcati vel trifurcati. Folia fertilia desunt.

Africa orientalis tropica. In Kilma ad radices montis Kilimandjaro regionis Dschagga. 3—4000 ped. leg. Kersten. 1864. no. 5.

### Platycerium Dsv.

Platycerium alcicorne Dsv.

Dsv. Ann. Soc. Linn. VI. 213. Hk. sp. V. 282.

Africa orientalis tropica. Prope Mombas. Exeunte Januario leg. Kersten. no. 6.

### Adiantum L. Sw.

Adiantum lunulatum Burm.

Burm. flor. ind. 235. Sw. syn. 121. W. sp. V. 430. Hk. spec. II. 11. Ettingh. farn. 85. t. 46. f. 6. 7. Bedd. f. South. Ind. 1. t. 1.

Insula Nossi-beh ad Madagascariam. Mart. Apr. 1864. leg. Kersten. no. 7.

Adiantum caudatum. L. 7928.

Sw. syn. 122. W. sp. V. 431. Hk. sp. II. 13.

var. hirsutum Mett. msc.

Adiantum hirsutum Bory it. I. 198. W. sp. V. 432. Klf. en. 201. Kze. Linn. 24. 273.

Insulae Sechellae. In collinis, Aug. 1863. leg. Kersten. no. 9. — Ins. Comorae. Prope Kitandam insulae Angasiliae. VII. Majo 1864. leg. Kersten. no. 8.

Adiantum hispidulum Sw.

Sw. Schrad. journ. 1800. II. 82. syn. 124. 321. W. sp. V. 444. R. Br. prodr. 155. Hk. sp. II. 31. Mett. fil. h. Lips. 47. Moore ind. 28. Ettingh. farn. 84. t. 44. f. 1. 3. 16.

Ins. Comorae. In colle meridiem versus prope Kitanda-Mdjini insulae Angasiliae. VIII. Majo 1864. leg. Kersten. no. 10.

### Lindsaya Dryand.

Lindsaya Pervillei Mett.

Mett. in hb. propr. Berol. Paris. Boiss. — Linds. Kirkii. Hb. Hook.



Digitized by Google

Rhizoma?, folia subcoriacea, glaberrima, laete viridia, utrinque nervis proeminentibus substrigosa; petiolus 4—6″ longus, basi paleis lanceolatis, acuminatis obsitus, glaber; rhachis glabra, late sulcata; lamina 12—14″ longa, late ovata, acuminata, bipinnatisecta; segmenta primaria 5—7 juga, brevissime petiolata, basi subopposita, sursum alterna, erecto-patentia, lanceolata, apice longe acuminata, superiora terminali fere aequalia; segmenta secundaria breviter petiolata, 15—24 juga vel numerosissima, approximata, e basi inferiore dimidiata, superiore truncato-rotundata, rhomboidea vel trapezio-oblonga, margine interno integerrimo, antico atque postico crenato-dentato, segmenta superiora triangulari-cuneata; nervi prominuli pluries dichotome flabellati, dentes adeuntes; sori distincti in apice nervi singuli vel arcum nervorum plurium occupantes; indusium rigidum inciso-serratum, pallidum, ad latera adnatum, marginem adaequans; sporangia annulo 12—14 articulato; sporae tetraëdrico-globosae; paraphyses nullae.

Ins. Sechellae. In collinis. Aug. 1863. leg. Kersten. no. 11.

Differt a Lind. tenera Dry. marginis dentibus et indusiis marginem attingentibus, a Lind. Thwaitesii Mett. in hb. Berol. (Ceylon. Thwaites. n. 982.) nervis liberis non anastomosantibus, segmentis superioribus non decrescentibus.

## Cheilanthes Sw.

### Cheilanthes pteroides Sw.

Sw. syn. 128. W. spec. V. 455. Schldl. ad. 54. Hk. sp. II. 80. t. 101. A. Mett. fil. h. Lips. 52. t. 16. f. 10. Cheil. n. 54. t. 3. f. 25. 26.

Africa orientalis tropica. Prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 12.

## Pteris. L. Mett.

### Pteris dichotoma.

Pteris radiata Bojer. Hort. 399. Mett. fil. hort. Lips. 54. t. 15. f. 6.

var. australis (L.) Hk.

Actiniopteris radiata β. australis Hk. Icon. pl. t. 976. Moore ind. fil. 16.

In insula Zanguebarica. Januario 1865. leg. Linck. no. 13.

### Pteris dura W.

W. sp. V. 376. Boj. h. Maur. 400. Pt. rigida Bory msc. Pellaea dura Hk. sp. II. 139.

Ins. Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnam 6000 ped. Majo 1864. leg. Kersten. no. 14.

Digitized by Google

## Pteris viridis Forsk.

Forsk. flor. Aeg. Arab. 186. Pteris hastata. Sw. Schrad. journ. 1803. II. 228. Syn. 106. W. sp. V. 391. Schldl. ad. 42. Mett. fil. h. Lips. 56. Ettingh. farn. 89. t. 52. f. 7. 8.

var. stenophylla Kze. Lin. 10. 533.

Ins. Comorae. In insulae Angasiliae monte ignivomo inter 600—3600 ped. et 3600—6000 ped. Majo. 1864. leg. Kersten. no. 15. 16. In insula Angasilia prope urbem Kitandam VII. Majo 1864. leg. Kersten. no. 17.

## Pteris longifolia L.

var. α. Ag. Rec. gen. Pter. 2. Pt. costata Bory in W. V. 367. Spr. syst. IV. 71.

In insula Zanguebarica. Januario 1865. leg. Linck. no. 19.

var. β. Ag. Rec. gen. Pt. 2. Pt. ensifolia Sw. syn. 95. W. V. 366. Spr. syst. IV. 71.

Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 18.

## Pteris nemoralis W.

W. sp. V. 386. hb. 19997. fol. 1. 2. 3. Ag. rec. gen. Pt. 25. Hk. sp. II. 202. Mett. f. h. Lips. 57.

Ins. Sechellae. In collibus. 3. Aug. 1863. leg. Kersten. no. 20. — Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 21.

## Pteris biaurita L. suppl. 1534.

Sw. syn. 98. Ag. rec. gen. Pter. 26. Hk. spec. fil. II. 203.

Ins. Comorae. In monte ignivomo insulae Angasiliae inter 600 et 3000 ped. Majo. 1864. leg. Kersten. no. 22.

## Pteris arguta Ait.

var. flabellata (Thbg.) Mett. msc.

Pt. flabellata Thbg. prod. 172. Sw. syn. 99. W. V. 396. Ag. rec. gen. Pter. 37. Hk. sp. II. 185. Mett. fil. h. Lips. 57. Ettingh. farn. 93. t. 58. f. 9; t. 59. f. 6. 7; t. 63. f. 2.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga. 5800—7800 ped. 1864. leg. Kersten. no. 23.

## Pteris aquilina L.

β. lanuginosa (Bory).

Bory in W. sp. V. 403. Klf. en. 189. Ag. rec. gen. Pter. 51. Hook. sp. II. 196. Spr. syst. IV. 78.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga. 3—4000 ped. 1864. leg. Kersten. no. 24. — Ins. Comorae. In insulae Angasiliae monte ignivomo. 3600—6000 ped. Majo. leg. Kersten. no. 25.



Digitized by Google

## Asplenum L.

### Asplenum Nidus L.

L. 7830. Lam. enc. II. 303. Sw. syn. 74. W. sp. V. 303. Pr. tent. 106. t. 3. f. 23. Mett. fil. h. Lips. 71. Aspl. no. 1. Hook. spec. III. 77.

**Africa orientalis tropica; prope Mombas; exeunte Januario 1864. leg. Kersten. no. 26.**

### Asplenum anisophyllum Kze.

Kze. Linn. 10. 511. Mett. Aspl. n. 36. t. IV. f. 12. Pappe et Raws. syn. fil. cap. 18. Moore ind. 113. Hk. spec. III. 111 (partim.) Ettingh. farn 142. t. 91. f. 8.

var. microphylla.

Pinnae forma typica minores 2—$2\frac{1}{2}$ longae, $\frac{1}{2}''$ latae; lamina apice gemmifera.

**In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 27. 28.**

Specimina nostra quamquam valde manca, tamen indusio fornicato atque soris crassis satis notabilia a specie typica a cl. Kunzeo descripta et ab icone a cl. Hookero (spec. vol. V. tab. 264.) delineata non nisi pinnarum magnitudine recedunt.

### Asplenum Mettenii.

?Asplenum macrolepis Mett. msc. var. tripinnatisecta.

Rhizoma?, petiolus?, folia membranaceo-carnosula, opaco-viridia; rhachis livida laxe paleis ovatis acuminatis nigricantibus obsita; lamina? tripinnatisecta paleis minutissimis nigricantibus obtecta; segmenta primaria erecto-patentia, 1″ distantia, petiolata, e basi oblique cuneata, oblongo-lanceolata, auriculata, acuminata, 3″ longa; secundaria petiolata trapezio-oblonga, acuta, e basi oblique cuneata, ala angustissima confluentia, infima maxima a reliquis latius distantia; tertiaria breviter petiolata trapezio-ovata vel lanceolata, obtusa, basi cuneata, ala manifesta confluentia, obtuse serrata; nervi supra prominuli, infra subimmersi, angulo acuto ascendentes, dentes adeuntes; sori utrinque 2—5; indusium latiusculum; sporangia annulo 18—22 articulato; sporae ovato-oblongae.

**Africa orientalis tropica; prope Mombas, exeunte Januario 1865. leg. Kersten. no. 29.**

Specimen nostrum apice et basi orbatum bene cum diagnosi Aspleni a cl. Kirk in insula Johannae collecti et a cl. Mettenio in libris manuscriptis descripti congruit.

### Asplenum Sandersoni Hook.

Hook. spec. fil. vol. III. p. 147. tab 179.

Digitized by Google

Africa orientalis tropica. In monte Kilimandjaro regionis Dschaggá 5500—7800 ped. 1864. leg. Kersten. no. 30.

Specimina nostra fere omnia apice gemmifera.

Asplenum protensum Schrad.

Schrad. goett. gel. Anz. 1818. 916. Schldl. adumbr. 29. tab. 16. Kze. Linn. 10. 513. Mett. Aspl. n. 137. Pappe et Raws. 18. Hk. spec. III. 150. Ettingh. farn. 140. tab. 82. f. 7. 8. 11. 14.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 31.

Asplenum contiguum Klf.

Klf. en. 172. Hk. spec. III. 156. tab. 194. Lowe. f. IX. t. 4. A. Mett. Aspl. n. 145. Beddom. F. S. Ind. 47. t. 140.

var. elongata.

Pinnis apice longe acuminatis.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 32.

Varietas nostra media inter Asplenum contiguum Klf. et Asplenum lepturum J. Sm., a priore specie pinnis apice longe acuminatis, a posteriore pinnis e basi superiore auriculatis recedens.

Aspleni spec.

Ins. Comorae. In insulae Angasiliae monte ignivomo 3600—6000 ped. Majo. 1864. leg. Kersten. no. 33.

Specimen nostrum frondem unicam sterilem rhizomate carentem sistens fortasse status sterilis jam notae speciei est. Lamina pinnatisecta apice pinnatifida, chartacea, opaco-viridis, glabra, nervis strigosa, 4″ lata, 6″ longa; segmenta 10 juga, patentia, petiolata, media 2″ longa, $^1/_2$″ lata, e basi inferiore profunde exciso-cuneata, superiore cuneato-rotundata, trapezio-lanceo lata, longe acuminata, irregulariter dentato-serrulata; nervi manifesti, fere $1^1/_2$″ distantes, furcati. Fructificatio deest. Species ex affinitate Aspleni contigui Klf., ab omnibus autem affinibus pinnis e basi inferiore profundissime exciso-cuneata distincta.

Asplenum nitens Sw.

Sw. syn. 264. 421. W. V. 326. Hk. spec. III. 157. tab. 195. Mett. Aspl. n. 147. Ettingh. farn. 142. t. 91. f. 12; t. 92. f. 1. 5.

var. angustifolia.

Ins. Comorae. In monte ignivomo insulae Angasiliae 3600—6000 ped. Majo. 1864. leg. Kersten. no. 34.

Specimina nostra basi orbata a forma normali quam ill. Hookerus (spec. III. tab. 195) delineavit, non nisi pinnis angustioribus

Digitized by Google

2—3″ longis, ¼″ latis subtus laxe paleaceis, soris costae magis approximatis quam in exemplis Sieberianis ex insula Mauritiana collectis differunt.

Asplenum macrophyllum Sw.

Sw. Schrad. journ. 1800. II. 52. syn. fil. 77. 261. W. V. 311. Mett. Asplen. n. 152[b]. Hk. spec. III. 158. t. 196. Moore. ind. fil. 143.

Ins. Comorae; prope urbem Kitanda insulae Angasiliae. leg. Kersten. VII. Majo. 1864. no. 35.

var. urophylla Hook.

Hook. spec. fil. III. 158. t. 197.

Pinnae falcatae plus minus auriculatae, serrato-dentatae, 5—6″ longae, 1—1½″ latae.

Insula Nossi-beh ad Madagascariam. Mart. April. 1864. leg. Kersten. no. 36.

Asplenum furcatum Thbg.

Thbg. prod. 172. Sw. syn. 83. Schldl. adum. 30. Mett. fil. hort. Lips. 77. Asplen. n. 161. Pappe et Rawson syn. fil. cap. 20. Hk. spec. III. 165. Ettingh. farn. 137. tab. 86. f. 7.

Ins. Comorae. In insula Angasilia prope Kitanda-Mdjini in colle meridiem versus. VIII. Majo 1864. leg. Kersten. no. 37. In monte ignivomo insulae Angasiliae circa stationem nocturnam 6000 ped. Majo 1864. leg. Kersten. no. 38.

var. alpina.

Lamina 3″ longa, rhachis paleis lanceolatis, acutis, integris, ferrugineis obsita; pinnae apice productae.

Ins. Comorae. In insulae Angasiliae monte ignivomo 6000—9000 ped. Majo 1864. leg. Kersten. no. 39.

Haec varietas statura minori et paleis ferrugineis facile a formis typicis distinguenda est.

Asplenum Linckii.

Rhizoma?, petiolus bisulcatus, stramineus una cum rhachi atque ramificationibus laxe paleaceus, paleis ovatis, acuminatis, clathratis obsitus; folia chartacea supra nitida, infra opaco-viridia, quadripinnatisecta; lamina 8—9″ longa, 5—6″ lata; segmenta primaria distantia utrinque ad rhachin 10—12, media 3—4″ longa, 2″ lata, ovata, acuminata, infima maxima apicem versus decrescentia, alternantia; secundaria utrinque 6—9 ad costam primariam, ovato-lanceolata, acuminata; tertiaria utrinque 3—5 ad costam secundariam, ½—¾″ longa, ½″ lata, e basi cuneata, late ovata vel trapezio-ovata, quartaria utrinque 1—2, petiolata, e basi cuneata, lanceolata, obtusa, bi-quadridentata, dentibus angustis acuminatis inaequalibus, infima segmenta saepius quoque bipartita; nervi bi-quadrifurcati, apices dentium adeuntes; sori utrinque ad costulam 1 vel 2, elongati, 1½‴ longi,

Digitized by Google

mediam laminae partem obtegentes; indusium membranaceum, integrum; sporae ovoideae vel subreniformes ala lata circumdatae.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. leg. Kersten. no. 40.

Species distinctissima, affinis Aspleno laserpitifolio Lam., a quo statura minore et segmentorum dispositione atque ramificatione differt.

Asplenum silvaticum Mett.

Mett. fil. h. Lips. 74. Asplen. n. 202. Ann. Mus. Lugd-Bat. II. 238. Hook. spec. III. 248. Benth. flor. Hongk. 452. Ettingh. farn. 150. t. 95. f. 4.

Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 41.

## Aspidium Sw.

Aspidium lobatum Sw.

Sw. syn. 53. W. sp. V. 260. Mett. fil. h. Lips. 88. Aspid. n. 108. Milde nov. act. XXVI. II. 490.

var. angulare Mett.

Mett. fil. hort. Lips. 88. Aspid. n. 108.

Ins. Comorae. In insulae Angasiliae monte ignivomo 6—9000 ped. Majo 1864. leg. Kersten. no. 42. 43.

Specimina nostra exacte congruunt cum speciminibus Schimperianis in Abyssinia collectis.

Aspidium inaequale Schldl.

Schldl. adum. 23. t. 12. Kze. Linn. 10. 549. Mett. Aspid. n. 151. Nephrodium Hook. spec. IV. 125.

Ins. Comorae. In insulae Angasiliae monte ignivomo inter 3600 et 6000 ped. Majo 1864. leg. Kersten. no. 44.

var. alpina.

Differt a forma normali petiolo 3—3½″ longo, lamina deltoidea 4½—6″ longa, 3—4″ lata.

Ins. Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnam 6000 ped. Majo 1864. leg. Kersten. no. 45.

Differt a varietate »montana Kze. Linn. 10. 549«, quam cl. Hookerus (spec. IV. 125.) per errorem cum Aspidio filice mare conjunxit, soris non confluentibus, lamina triangulari sursum decrescente.

Ins. Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnam 6000 ped. Majo 1864. leg. Kersten. no. 45.

Digitized by Google

## Aspidium Kilmense.

Rhizoma?, petiolus?, lamina 1′ longa, 8″ lata, subovata, acuminata, superne glabra, fuscescens, infra opaco-viridis, tripinnatisecta, rhachis glabra, costulae primariae et secundariae sparse paleaceae, paleis late ovatis subito acuminatis; segmenta primaria erecto-patentia 4—5″ longa, 2—2½″ lata, ovato-lanceolata, acuta, petiolata, secundaria rhombeo-ovata obtusa, 1—1½″ longa, ½—¾″ lata, inaequilatera plerumque petiolata, pinnatisecta; tertiaria inferiora petiolata, ala angustissima conjuncta, superiora sessilia, basi confluentia, rhombeo-ovata, obtusa, e basi inferiore cuneata, superiore oblique truncata, crenato-dentata, apice bi-vel tridentata; nervi inferiores furcati, apicem crenarum vel dentium adeuntes; sori in segmentis tertiariis infimis 2—4, ramum anticum nervorum occupantes costae magis quam margini approximati, in segmentis superioribus 2, confluentes et fere totam laminam obtegentes; indusium glabrum, reniforme, membranaceum, integrum; sporangia annulo 12—14 articulata, sporae ovatae vel globosae; paraphyses nullae.

**Africa orientalis tropica. In Kilma ad radices montis Kilimandjaro regionis Dschagga 3—4000 ped. 1864. leg. Kersten. no. 46.**

Species distincta, quamvis e specimine manco descripta, affinis Aspidio athamantico Kze., a quo segmentorum forma obtusa facile distingui potest.

## Aspidium cirrosum Schum.

Schum. K. Dansk. Vid. Afh. IV. 457. Nephrodium crinibulbum Hk. sp. f. IV. 92. t. 244. Hook. fil. in journ. Linn. soc. VII. 234.

**Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 47.**

Specimen nostrum bene congruit cum diagnosi Schumacheri et icone a cl. Hookero data, sed differt a statu normali descripto paleis rhacheos lanceolatis, acuminatis, nigricantibus, costarum ovatis, basi ciliatis, acutis ferrugineis. Indusium membranaceum reniforme supra fere glabrum, laxe ciliatum, quod jam cl. Hookerus l. c. delineavit.

## Aspidium squamisetum.

Nephrodium (Lastrea) squamisetum Hook. spec. fil. IV. 140. tab. 268.

Aspidium subdentatum Mett. msc.

**Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 48.**

Specimen nostrum optime congruit cum diagnosi et icone plantae a cl. Mannio in insula Fernando Po lectae a cl. Hookero data nec diversum a speciminibus Boivinianis ex insula Borboniae collectis.

Digitized by Google

## Aspidium unitum Mett.

Mett. in Ann. Mus. Lugd. Bat. I. 230.

β. hirsutum Mett. l. c.

Aspidium propinquum Sw. adn. bot. 67. Mett. Aspid. n. 242. fil. hort. Lips. 91. Hook. spec. fil IV. 80.

**Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 49.**

## Aspidium molle Sw.

Sw. Schrad. journ. 1803. II. 280. syn. 49. W. V. 246. Mett. fil. h. Lips. 91. Aspid. n. 246. Ann. Mus. Lugd. Bat. I. 234. Hk. spec. fil. IV. 68.

**Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 50.**

Specimen nostrum a forma typica differt nervis tertiariis infimis paulo infra sinum laciniarum anastomosantibus vel saepissime sine anastomosi marginem sinus attingentibus, indusio glabro coriaceo. Sporangiorum annulus fuscus. — Haec forma valde accedit ad Aspidium patens Sw., a quo autem dispositione segmentorum differt.

var. violascens Mett. msc.

Aspidium violascens Lk. spec. fil. 101. Mett. fil. h. Lips. 91. Aspid. n. 247.

**Ins. Comorae. Prope urbem Kitanda insulae Angasiliae. VII. Majo. 1864. leg. Kersten. no. 51.**

Specimen unum, quod exstat, optime congruit cum exemplis Aspidii violascentis herbarii Linkiani atque horti regii botanici Berolinensis, alterum autem differt soris paucis plerumque nervos infimos tertiarios, qui arcum costalem efformant, rarissime superiores occupantibus, valde approximatis, demum confluentibus; eandem formam, quae oligosora nominari potest, ex Indiae orientalis regione Chittagong (Herb. Hook. et Thoms.) vidi.

## Aspidium cucullatum Bl.

Bl. enum. 151. Mett. Ann. Mus. Lugd. Bat. I. 232. Aspidium unitum Sieb. syn. fil. Mett. Aspid. n. 257. Nephrodium Schott.

**Insulae Sechellae; in collinis. Aug. 1863. leg. Kersten. no. 52.**

## Aspidium coadunatum Wall.

Wall. cat. 337. Hk. Grev. ic. fil. t. 202. Mett. fil. h. Lips. 94. t. 22. f. 3. 4. Lowe ferns. VI. t. 50. Ettingh. farn. 191. t. 128. f. 6.

**Africa orientalis; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 53.**

Digitized by Google

## Polypodium (L.) Mett.

Polypodium lanceolatum L.

L. 7852. Sw. syn. 26. W. sp. V. 153. Mett. Polyp. n. 155[b]. Griseb. flor. brit. Westind. 702.
Polypodium lepidotum W. hb. Schldl. ad. 17. t. 8.

var. latifolia Schldl. l. c.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 54.

var. angustifolia Schldl. l. c.

Ins. Comorae. In insulae Angasiliae monte ignivomo 3600—6000 ped. Majo 1864. leg. Kersten. no. 55.

Polypodium simplex Sw.

Sw. in Schrad. journ. 1800. II. 19. syn. 27. 223. W. sp. V. 154. Polypodium excavatum Bory msc. in W. sp. V. 158.

Ins. Comorae. In insulae Angasiliae monte ignivomo 3600—6000 ped. Majo 1864. leg. Kersten. no. 56.

Polypodium Phymatodes L.

L. 7860. Bory voy. II. 135. Sw. syn. 31. W. sp. V. 167. Kze. fil. I. t. 44[a]. Mett. f. h. Lips. 36. t. 25. f. 10—16. Polyp. n. 195. Hook. spec. V. 82. Ettingh. farn. 49. t. 31. f. 4; tab. 35. f. 9.

Lamina subtus sparse vel dense glandulosa.

Insulae Sechellae. In collinis Aug. 1863. leg. Kersten. no. 57. — Insula Nossi-beh ad Madagascariam. Mart. April. 1864. leg. Kersten. no. 58. — Insulae Comorae. In insulae Angasiliae monte ignivomo 600—3600 ped. leg. Kersten. no. 59. — Africa orientalis tropica; prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 60.

Polypodium Loxogramme Mett.

Mett. Polyp. n. 216. t. III. f. 25. Ann. Mus. Lugd. Bat. II. 226. Schweinfurth. Beitr. z. flor. Aethiop. 220.

Insulae Comorae. In insulae Angasiliae monte ignivomo circa stationem nocturnam 6000 ped. Majo 1864. leg. Kersten. no. 61.

## Nephrolepis Schott.

Nephrolepis tuberosa Pr. t. 79.

var. undulata Mett. msc.

Nephrolepis undulata J. Sm. Kze. Linn. 23. 213. Bolle Bonpl. III. 122. Lowe. f. VII. t. 20.

Ins. Comorae. In insulae Angasiliae monte ignivomo inter 600 et 3600 atque inter 3600—6000 ped. Majo 1864. leg. Kersten. no. 62. 63.

Digitized by Google

Nephrolepis biserrata Schott. Gen.

Ettingh. Farn. 204. t. 134. f. 10; t. 135. f. 14. 15. — Aspidium Sw. Schrad. j. 1800. II. 32. syn. 46. — Nephrolepis acuta Pr. tent. 79.

Ins. Comorae. In insula Angasilia prope Kitanda. VII. Majo 1864. no. 67. — Prope Kitanda Mdjni in colle meridiem versus. VIII. Majo 1864. leg. Kersten. no. 68. — Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5600—7800 ped. leg. Kersten. no. 69.

var. glandulosa.

Pinnae subtus glandulosae, sori margini valde approximati.

Insulae Sechellae. In collibus. Aug. 1863. leg. Kersten. no. 64. 65. 66.

### Davallia Sm.

Davallia denticulata Mett. msc.

Adiantum denticulatum Burm. fl. indic. 236. Davallia elegans Sw. Schrad. journ. 1800. II. 87. syn. 132. 347. Mett. fil. h. Lips. 101. t. 27. f. 19. 20.

var. intermedia Mett. msc.

Indusium antice semirotundatum, oblongum s. late oblongum.

Insulae Sechellae. In collinis. Aug. 1863. leg. Kersten. no. 70.

Specimen nostrum exacte cum speciminibus Natalensibus et in insulis Comoris collectis congruit.

Davallia repens.

Adiantum repens. L. suppl. 446. Lam. enc. I. 40. Davallia pedata Sm. Act. Taurin. V. 415. Sw. syn. 131. 341. Humata pedata J. Sm. Lond. journ. I. 475. Mett. fil. h. Lips. 102. t. 27. f. 13. Ettingh. farn. 206. t. 140. f. 1—4, 6—7.

Insulae Sechellae. In collinis. Aug. 1863. leg. Kersten. no. 71.

## 2. Cyatheaceae Endl.

### Cyathea Sm.

Cyathea spec.

Africa orientalis tropica. In monte Kilimandjaro regionis Dschagga 5500—7800 ped. 1864. leg. Kersten. no. 72.

Species valde affinis Cyatheae Dregei Kze., differt autem paleis segmentorum ultimorum firmis, dilaceratis, ovatis vel lanceolatis, acutis, quae in Cyathea Dregei Kze. semper lineares longe acuminatae observantur. Specimina manca praeterea fructificatione carentia accuratius determinare non ausus sum.

Digitized by Google

## 3. Gleicheniaceae R. Br.

### Gleichenia R. Br.

Gleichenia dichotoma Hook.

Hook. spec. fil. I. 12. Lowe f. VIII. 51. Mett. fil. hort. Lips. 113. Ann. Mus. Lugd. Bat. I. 50. Hook. fil. journ. Linn. soc. VII. 234. Benth. fl. Hongk. 442. Beddom. F. S. Ind. 25. t. 74.

Insulae Sechellae. In collinis. Aug. 1863. leg. Kersten. no. 73. 74.

## 4. Schizaeaceae Mart.

### Lygodium Sw.

Lygodium Kerstenii.

Rhizoma?, petiolus primarius basi paleis nigrescentibus longe acuminatis obsitus, semiteres, ala angustissima ab ortu frondium decurrenti instructus, quadripollicaris. Lamina tenuiter coriacea, flexuosa, costis petiolisque pubescenti-setosa. Nervi Neuropteridis, prominuli. Segmenta primaria non articulata, infima deltoidea, cordata, palmatiloba, lobi laterales ovati, obtusi, argute serrati, nervi dentes adeuntes, lobi terminales pinnatisecti, obtusi, laciniis serratis, superiora erecto-patentia, fertilia ovato-lanceolata sub gemma setis pallidis circumdata, dichotoma, subtripinnatisecta 5—8 juga; segmenta secundaria pinnularum e basi cordata, oblongo-lanceolata ala angustissima confluentes, ultima e basi cuneata deltoidea, apice subito producto; laciniae e basi cuneata ovatae, obtusae, palmatilobae, margine in lacinias fertiles dentatae. Laciniae fertiles spiciformes, bilineales, compressae, glabrae, aut rarissime pilis albescentibus adspersae, utrinque 5—10 sporangia dentibus cuculliformibus velata gerentes; sporae globosae vel tetraëdrico-globosae.

Insula Nossi-beh ad Madagascariam. Mart. Apr. 1864. leg. Kersten. no. 75. — Africa orientalis, prope Mombas. Exeunte Januario 1865. leg. Kersten. no. 76.

Species valde affinis Lygodio japonico Sw., a quo autem differt laciniis ultimis sterilibus ovato-oblongis, apice subito producto; a Lygodio Smithiano Pr. forma pinnularum, sporangiis compluribus, sporis etc.

Digitized by Google

## 5. Lycopodiaceae Sw.

### Lycopodium L.

Lycopodium Saururus Lam.

Lam. Enc. bot. III. 653. Sw. syn. 176. Bory. voy. I. 344. t. 16. f. 1. Willd. spec. V. 50. Hook. et Grev. En. fil. no. 7. Spring. Monogr. Lyc. I. 21.

In insulae Borboniae monte ignivomo 1863. leg. Kersten. no. 77.

Lycopodium clavatum L. sp. pl. 1564.

e. inflexum. Spring. Mon. Lycop. I. 89. 90. Lycop. inflexum Sw. syn. 179. W. sp. V. 15.

Insulae Comorae. In insulae Angasiliae monte ignivomo inter 3600 et 6000 ped. Majo. 1864. leg. Kersten. no. 78.

Lycopodium cernuum L.

L. sp. pl. 1566. Sw. syn. fil. 178. W. sp. V. 30. Klf. en. 15. Schldl. adumbr. 5. Pr. rel. Haenk. I. 80. Spring. bot. zeit. 1838. I. 163. Mon. Lycop. I. 79.

Insulae Sechellae. In collinis. Aug. 1863. leg. Kersten. no. 79.

---

# Filices Petersianae.

Hae filices, quas cl. Peters, zoologiae in Universitate Berolinensi professor, in Africa orientali anno 1843 collegit, in libro ejus »Reise nach Mossambique« omissae sunt.

## 1. Polypodiaceae R. Br.

### Adiantum L.

Adiantum Capillus Veneris L.

L. 7923. Sw. syn. 124. W. sp. V. 449. Dsf. fl. atlant. II. 409. Pappe et Raws. syn. f. cap. 32. Mett. f. h. Lips. 48. Ad. africanum R. Br. verm. Schr. I. 287.

Africa orientalis tropica. Mozambique.

Specimina varietatem, inter regiones tropicas divulgatam, segmentis elongatis, profunde incisis, quam R. Brown (l. c.) Adiantum africanum nominavit, offerunt.

Digitized by Google

Adiantum caudatum L.

L. sp. 7928. Sw. syn. 122. W. spec. V. 431. Hk. spec. II. 13.

var. hirsuta Mett. msc.

Adiantum hirsutum Bory it. I. 198. W. sp. V. 432. Adiantum neurodes Kze. in sched. hb. Berol.

Ins. Comorae. Ins. Johannae s. Angoana.

Specimina nostra, quae cl. Kunzeus novam speciem putavit, nullo modo ab Adianto hirsuto Bory differunt.

### Aspidium Sw.

Aspidium cucullatum Bl.

Bl. en. 151. Mett. Ann. Mus. Lugd. Bat. I. 232. Aspidium unitum Sieb. syn. fil. Mett. Aspid. no. 257. Nephrodium Schott.

Ins. Comorae. Ins. Johannae.

### Polypodium L. Mett.

Polypodium Phymatodes L.

L. 7860. Sw. syn. 31. W. spec. V. 167. Mett. fil. hort. Lips. 36. t. 25. f. 10—16. Polyp. n. 195. Hook. spec. fil. V. 82.

Insulae Comorae. Ins. Johannae.

### Nephrolepis Schott.

Nephrolepis biserrata Schott. gen.

Aspidium Sw. Schrad. j. 1800. II. 32. syn. 46. 242. W. V. 231. — Nephrolepis acuta Pr. tent. 79. — Aspidium splendens W. V. 221.

Ins. Comorae. Ins. Johannae.

### Davallia Sm.

Davallia denticulata Mett. msc.

Adiantum Burm. fl. ind. 236. Davallia elegans Sw. Schrad. journ. 1800. II. 87. syn. 132. 347.

var. intermedia Mett. msc.

Ins. Comorae. Ins. Johannae.

Recte cl. Kunzeus haec specimina varietatem Davalliae elegantis Sw. putavit, quae exacte formas intermedias inter Davalliam elegantem Sw. et Davalliam elatam Sw. offerunt. Indusia, quamvis in speciminibus ex insula Johannae collectis

Digitized by Google

rarescentia nullo modo ab indusiis speciminum Natalensium et Sechellanorum differunt.

## 2. Lycopodiaceae Sw.

### Selaginella Pal. Beauv. Spring.

Selaginella rupestris Spring.

Spring. in Endl. et Mart. flor. bras. I. 118. Kl. Linn. 18. 520. Lycopodium rupestre L. sp. pl. 1564.

**Prope urbem Tette ad flumen Zambeze.**

Selaginella imbricata Spring.

Spring. Arch. d. Mus. II. 193. t. 7. Monogr. Lyc. II. 70. Lycopodium imbricatum Forsk. fl. aeg. arab. 187.

**Africa orientalis tropica. Mozambique.**

Digitized by Google

# Cormophytorum totius Africae Catalogus.

## Fam. I. **Filices.**

### Ordo. I. **Hymenophyllaceae** Endl. gen. 64.

### 1. Trichomanes L. Sm.

Trichomanes angustatum Carm.

Carm. Linn. Trans. XII. 513. Hk. Grev. ic. t. 164. Hk. spec. I. 141. Kze. bot. zeit. V. 437. Spr. syst. IV. 130. v. d. Bosch. syn. Hymenoph. 24. Lowe. f. t. IX. t. 67. A.

Ins. Tristan d'Acunha (Carmichael).

Trichomanes bipunctatum Poir.

Poir. enc. VIII. 69. — Trichomanes Filicula Bory. Dupp. voy. I. 283. Bel. voy. II. 80. Hk. spec. I. 124. Kze. bot. zeit. IV. 476; V. 329. Brack. expl. 252. Pappe et Raws. syn. f. cap. 45. — Hymenophyllum Bory. W. V. 528. Poir. suppl. V. 348. Spr. syst. IV. 132. — Didymoglossum Dsv. Ann. Linn. VI. 331. Pr. Hym. 23. t. 8. B. v. d. Bosch. Hym. Jungh. 12. syn. Hym. 41. Hym. jav. 35. t. 26. Hassk. Pug. II. 21. — Taschneria Pr. ep. 258. — Hymenophyllum alatum Schk. 133. t. 135b. Trichomanes minutulum Gaud. Freyc. 377. t. 12. f. 2. a. b. c. Bory. voy. Coq. I. 283. — Didymoglossum Pr. Hym. 23. — Did. undulatum Pr. Hym. 23. 48. v. d. Bosch. syn. Hym. 42. — Did. decipiens Dsv. Ann. Linn. VI. 328. t. 7. f. 4. Trich. bilingue Menz. J. Sm. in Hk. journ. III. 417. partim. Trich. longisetum Wall. cat. 164. Trich. limbatum Moore. Hymenophyllum densum Wall. cat. 171.

Ins. Mauritii (Sieber syn. fil. 136. fl. mixt. 295. Boivin). — Ins. Borboniae (Bory. in hb. W. 20233. Boivin). — Madagascaria. — Ins. Comorae. — As. P.*)

*) Adn. Litterae: E. = Europa; As. = Asia; P. = Polynesia; NH. = Nova Hollandia; Am. s. c. a. = America septentr., central., austr. significant, hanc speciem etiam in illis terris nasci.

Digitized by Google

Trichomanes Boivini v. d. Bosch.

v. d. Bosch syn. Hymen. 33. Cephalomanes Madagascariensis v. d. Bosch syn. Hymen. 11. Trichomanes Moore ind. 230.

Ins. St. Mariae ad Madagascariam (Boivin). — Madagascaria (Boivin). — Ins. Comorae; ins. Mayotte (Boivin).

Trichomanes borbonicum v. d. Bosch.

v. d. Bosch in sched. herb. reg. Berol. Trichomanes angustatum hb. Desv. Trichomanes limbatum Mett. olim. Trichomanes Filicula Bory var. herb. Bory.

Ins. Borboniae (Bory. Richard. Boivin 908. Vieillard). — Ins. Mauritii (Boivin).

Trichomanes cuspidatum Willd.

W. V. 499. Poir. suppl. V. 342. Hook. spec. I. 119. Kze. bot. zeit. V. 301. 439. Spr. syst. IV. 128. v. d. Bosch syn. Hym. 14. — Microgonium Pr. Hymen. 19. t. 6. A.; Stip. 27. v. d. Bosch Hymen. jav. 7. in obs. — Trichomanes Bojeri Hk. Grev. ic. f. t. 155. Hook. spec. I. 116. Kze. bot. zeit. V. 300. Lowe. f. IX. 165. — Trichomanes undulatum Wall. cat. n. 160. — Trichomanes adiantinum Bory. Bél. Crypt. 78. Hk. spec. I. 143 .v. d. Bosch syn. Hymen. 15.

Ins. Mauritii (Thouars, Bojer, Wallich, Sieber, Néraud). — Ins. Borboniae (Bory, Flügge in hb. W. 20205, Pappe, Boivin. [Loco non indicato]. Defontaines in hb. W. 20206). — Madagascaria. — Ins. Comorae. — Ins. Sechellae.

Trichomanes digitatum Sw.

Sw. syn. fil. 370. 422. Poir. enc. VIII. 70. Bl. en. 224. Hk. spec. I. 119. v. d. Bosch. syn. Hym. 13. Hym. jav. 20. in obs. — Trichomanes lanceum Bory W. V. 501. Poir. suppl. V. 343. Hk. Grev. ic. t. 33. Bory. Bél. Crypt. 79. Spr. syst. IV. 128. — Trichomanes loreum Bory. Bél. Crypt. 79. — Trichomanes flabellatum v. d. Bosch syn. Hym. 13. Hym. jav. 19. t. 13. — Trichomanes Blumei Hassk. Pug. II. 4.

Ins. Mauritii (Sieber syn. f. 81. Bory in hb. W. 20208. Telfair). — Ins. Borboniae (Boivin 906. Vieillard). — As. P.

Trichomanes dilatatum v. d. Bosch.

Didymoglossum dilatatum v. d. Bosch. Ned. Arch. vol. V. p. 144.

Africa occidentalis. Ins. Fernando Po (Mann. 246. pt. 331).

Trichomanes ericoides Hedw.

Hedwig in Weber et Mohr Beitr. I. (1805). 116. Trich. Meifolium Bory W. V. 509. Poir. suppl. V. 344. Klf. en. 265. t. 2. Spr. syst. IV. 131. Bl. en. 227. Kze. bot. zeit. IV. 477; V. 404. 416. Hk. spec. I. 137. v. d. Bosch syn. Hym.



Digitized by Google

33. Hym. jav. 30. in obs. Trich. furcatum Klf. Spr. anl. ed. sec. II. 93. Trichomanes foeniculaceum Hk. spec. I. 135. Hassk. Pug. II. 11. — Trich. longisetum Bory. W. V. 510. Poir. suppl. V. 344. Hook. spec. I. 137. Spr. syst. IV. 130. Kze. bot. zeit. V. 418. VI. 304. v. d. Bosch syn. Hym. 33. Hym. Jungh. 12. Hym. javan. 28. t. 21.

Ins. Borboniae (Bory in hb. W. 20201; 20211. Boivin, Bélanger, de Hell, de Montbrison). — As.

Trichomanes erosum Willd. V. 501.

W. V. 501. Poir. suppl. V. 343. Pal. Beauv. fl. d'Oware. II. 79. t. 109. f. 3. Spr. syst. IV. 128. Hk. spec. I. 117. Kze. bot. zeit. V. 301. v. d. Bosch syn. Hym. 15. Ned. Arch. V. 144. — Microgonium Pr. Stip. 27. — Trichomanes aerugineum v. d. Bosch. Ned. Arch. V. 201. — Trich. crispulum v. d. Bosch. Ned. Arch. V. 200.

Africa occidentalis (Flügge in hb. W. 20189. Pal. Beauvois). — Ad flumen Niger (Barter). — Ins. Fernando Po. — Ins. Principis.

var. laciniata Mett. msc.

Tr. Lenormandi v. d. Bosch. Ned. Arch. V. 144.

Ins. Comorae; ins. Mayotte (Boivin 2883); ins. Johannae (Kirk).

Trichomanes Guineense Afz.

Afz. ex Sw. in Schrad. journ. 1800. II. 96. syn. fil. 142. W. spec. V. 506. Poir. enc. VIII. 66. Hook. spec. I. 128. Kze. bot. z. V. 350.

Africa occidentalis tropica (Mann). — Sierra Leone (Afzelius).

Trichomanes lanceolatum Poir.

Poir. enc. meth. VIII. 83. v. d. Bosch syn. Hymen. 33. Hook. spec. I. 142.

Madagascaria (Thouars in hb. Mus. Paris.).

Trichomanes Mannianum Mett. msc.

Rhizoma elongatum, repens; folia membranacea, laete viridia, infra nervis pilis brevissimis sparse obsita, ceterum glaberrima; petiolus capillaris, ad 1″ longus, e medio, nec non rhachis ex insertione costularum prolifera; lamina ½—¾″ longa, e basi truncata, semirotundata s. ovato-rotundata, palmatipartita s. subpinnatipartita, laciniae subflabellatae, ala lata coadunatae, contiguae, ultimae, oblongae, bifidae; lacinulae abbreviatae, obtusae s. emarginatae; cellulae parenchymatis polyedricae, parietibus lateralibus plicatim incrassatae, externae manifestius incrassatae; sori lacinulas internas laciniarum superiorum laciniasque supremas laterales indivisas paullulum abbreviatas occupantes, immersi, late alati; indusium

Digitized by Google

campanulatum ore dilatato, truncato, subbidentato; receptaculum breve, exsertum. (Mett. msc.)

Ins. Fernando Po (Mann).

### Trichomanes melanotrichum Schldl.

Schldl. adumbr. 56. Linn. X. 553. v. d. Bosch. syn. Hymen. 25. Pappe et Raws. syn. f. cap. 45. Trich. pyxidiferum Moore Hk. journ. bot. V. 227. Pappe et Raws. syn. fil. cap. 45.

Africa occidentalis tropica. Ad flumen Nun (Mann 539). — Prom. bon. spei. (Mundt et Maire, Zeyher, Drège, Breutel). — Natalia (Gueinzius, Plant 329 c.) — Ins. Borboniae (Bory, Boivin, Richard). — Ins. Mauritii (Boivin). — Ins. Comorae. — As.

### Trichomanes obscurum Bl.

Bl. enum. 227. C. Müller. bot. zeit. 12. 749. v. d. Bosch. Hym. Jungh. 9. syn. Hym. 35. Hym. jav. 23. t. 17. — Didymoglossum Hassk. pug. II. 22. Trich. rigidum Hk. sp. 133. partim. Kze. bot. z. IV. 477; V. 402. Beddom. F. S. Ind. 3. t. 8. Didymoglossum longisetum Pr. Hym. 23. 49. Trichomanes setaceum v. d. Bosch. Ned. Arch. V. 176. Trich. pyramidale Wall. cat. 162.

Madagascaria. — Ins. Comorae; ins. Mayotte (Boivin). — As.

var. pectinata Mett. msc.

Trichomanes cupressoides Dsv. Ann. Linn. VI. 330. Hk. spec. I. 142. Kze. bot. z. V. 438.

Ins. Borbonia (Boivin). — Ins. Sechellae (Pervillé. 81. 84).

### Trichomanes parviflorum Poir.

Poir. enc. VIII. 83. Hk. spec. I. 142. — Trich. foeniculaceum Bory W. V. 511. Poir. suppl. V. 344. Spr. syst. IV. 131. Kze. bot. zeit. V. 404. Hk. spec. I. 135 partim. v. d. Bosch. syn. Hym. 33. Moore syn. fil. CX. — Trich. Myriophyllum Dsv. Ann. Linn. VI. 329. Hk. spec. I. 136. Kze. bot. zeit. V. 404. v. d. Bosch syn. Hymen. 35.

Ins. Borboniae (Bory in hb. W. 20212. Commerson, Merat, Boivin 910, Pappe, Vieillard). — Madagascaria (Thouars).

### Trichomanes parvulum Poir.

Poir. enc. VIII. 44. Klf. en. 260. Spr. syst. IV. 128. pt. Hook. spec. I. 118. t. 39. A. Kze. bot. zeit. Benth. flor. Hongk. 462. v. d. Bosch. syn. Hym. 13 partim. — Trich. Thouarsianum Pr. Hym. 16. 40. Hook. spec. I. 145. v. d. Bosch. syn. Hym. 13. — Tr. Sibthorpioides Gaud. Freyc. 376. — Trich. saxifragoides Pr. Hymen. 16. 39. v. d. Bosch. syn. Hym. 13. Gonocormus v. d. Bosch. Hym. jav. 9. in obs.

Ins. Borboniae (Thouars in hb. W. 20204 fol. 2). — Madagascaria (Thouars). — As. P.



Digitized by Google

Trichomanes pyxidiferum L. sp. 7948.

Sw. Schrad. journ. 1800. II. 96. fl. Ind. occ. 1739. 2014. syn. fil. 143. W. V. 508. Hk. sp. I. 124. v. d. Bosch. syn. Hymen. 22. Lowe f. IX. 161. etc. — Omnia synonyma referenda sunt ad specimina locis americanis enata.

**Africa occidentalis tropica. — Am. c. a.**

Trichomanes radicans Sw.

Sw. Schrad. journ. 1800. II. 97. Ind. occ. 1736. 2014. syn. 143. Poir. enc. VIII. 68. W. V. 513. Rees. Cycl. 36. Spr. syst. IV. 130. pt. Pr. Hym. 16. t. 2. B. Hk. spec. I. 125. brit. f. t. 42. Kze. bot. z. V. 330. flora 1839. beibl. I. 53. Schldl. Linn. V. 618. A. Gray. in Sill. journ. 1853. 325. Moore fil. brit. ed. 3. 254. Nat. print. ferns. t. 48. Newm. brit. f. 283. Webb. et Berth. phyt. can. 447. Bot. Herald 239. 343. Eaton in Chapm. fl. S. Unit. Stat. 597. Lowe fil. 8. t. 11. Griseb. fl. brit. Westind. 655. — Trich. scandens Hedw. fil. t. 6. Liebm. Mex. Breg. 143. Trich. speciosum W. sp. V. 514. Poir. suppl. V. 344. v. d. Bosch. syn. Hym. 28. Spr. syst. IV. 131. Newm. brit. f. 292. Ettingh. fl. d. jetztw. 230. t. 164. f. 5. — Trich. brevisetum R. Br. hort. Kew. V. 529. v. d. Bosch. syn. Hym. 29. — Hymenophyllum alatum Engl. bot. t. 1417. — Didymoglossum alatum Dsv. Ann. Linn. VI. 331. — Trichomanes Hook. fl. Londin. 4. t. 53. Trich. europaeum J. Smith. Rees. Cycl. 36. — Hymenophyllum Tunbridgense β. Smith brit. fl. 1142. — Trichomanes pyxidiferum Huds. fl. Angl. 461. — Trich. hibernicum Spreng. syst. IV. 130. — Trich. Andrewsii Newm. brit. ferns. 315. — Alia synonyma ad specimina locis americanis, indicis, sandvicensibus enata referenda sunt.

**Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Broussonet in hb. W. 20215. Bolle, Schottmüller, Wichura et alii). — Africa occidentalis tropica. — E. Am. s. c. a. As. P.**

var. gigantea Mett. msc.

Trichomanes giganteum Bory. W. spec. V. 514. Poir. suppl. V. 344. Spr. syst. IV. 131. Hk. spec. I. 136. icon. pl. t. 702. Kze. bot. z. V. 404. v. d. Bosch. syn. Hym. 33. Trich. radicans Kze. Linn. 9. 106. — Trich. scandens Kze. bot. zeit. 5. 349. Kl. Linn. 18. 531. Sturm in Mart. fl. bras. I. 265. Pr. Hym. 16. t. III. B. — Trich. Kunzeanum Hook. spec. I. 127. t. 39. D. — Trich. repens Sturm in Mart. fl. brasil. I. 264. β. partim.

**Ins. Borboniae (Bory in hb. W. 20216. Bélanger, Gaudichaud, Boivin 911). — Ins. Comorae. — Am. c. a. As.**

Digitized by Google

## Trichomanes reptans Mett. msc.

var. major Mett. msc.

Trichomanes reptans Sw. prod. 136. fl. Ind. occ. 1727. syn. 142. W. spec. V. 501. Poir. enc. VIII. 63. Hedw. fil. 3. f. 4. etc. Mett. Ann. sc. nat. sér. V. t. II. 193.

Natalia (Herb. Hooker). — Am. c. a.

## Trichomanes rigidum Sw.

Sw. prod. 137. Schrad. j. 1800. II. 97. fl. Ind. occ. III. 1738. 2014. syn. 144. W. V. 512. Hedw. fil. t. 2. Poir. enc. VIII. 69. J. Sm. Rees. cycl. v. 36. Kth. syn. 89. Spr. syst. IV. 131. Hk. sp. I. 133. pt. Kze. bot. z. V. 402; Linn. 10. 553. C. Müll. bot. z. 12. 749. Sturm in Mart. fl. bras. I. 267. v. d. Bosch syn. Hym. 31. Ettingh. farn. 230. t. 165. f. 2. Pappe et Raws. syn. f. cap. 45. Griseb. fl. brit. Westind. 656. Mett. Ann. sc. nat. sér. V. t. II. 194. — Trichomanes bifidum Vent. W. sp. V. 511. Poir. suppl. V. 344. Hk. sp. I. 136. Kz. bot. z. V. 404. v. d. Bosch. syn. Hym. 36. Ned. Arch. V. 404. Trich. daucoides Pr. epim. 12. t. 7. v. d. Bosch. syn. Hym. 32. Trich. Drègei v. d. Bosch. syn. Hym. 32.

Prom. bon. spei. (Drège). — Natalia (Gueinzius). — Am. c. a.

## Trichomanes subsessile Mett. msc.

Rhizoma elongatum, arrhizum, pilis radicalibus, nigricantibus vestitum; folia membranacea, laete viridia, glaberrima, subsessilia, e basi late cuneata, ovata, obtusa s. longius attenuata, basi bipinnatipartita; laciniae ala lata confluentes, contiguae, inferiores subflabellatae, obtusae (vix emarginatae); nervi spurii omnino nulli; cellulae parenchymatis polyedricae manifeste aequaliter limbatae, marginales conformes; sori lacinias laterales superiores abbreviatas terminantes; indusium immersum, tubus cuneato-breviter oblongus, late alatus; ore dilatato-truncato. (Mett. msc.)

Africa occidentalis tropica: ad flumen Bagroo (G. Mann).

## Trichomanes stylosum Poir.

Poir. enc. VIII. 32. Hk. spec. I. 143. — Trich. achilleaefolium Bory. W. V. 512. Poir. suppl. V. 344. Spr. syst. IV. 130. Pr. Hym. 16. t. 3. c. C. Müll. bot. z. 12. 750. Kze. bot. z. (1847). 402. Trich. alchemillaefolium Telfair. Wall. cat. 159. v. d. Bosch. syn. Hym. 35. — Trich. thujoides Dsv. Ann. Linn. VI. 328. Hk. sp. I. 128.

Ins. Borboniae (Bory in hb. W. 20214. Boivin). — Ins. Mauritii (Sieber syn. f. 72. Bojer, Telfair). — Madagascaria (Thouars).

Digitized by Google

Trichomanes tamarisciforme Jacq.

Jacq. coll. III. 285. t. 21. f. 2. Sw. Schrad. j. 1800. II. 97. syn. 144. Poir. enc. VIII. 68. J. Sm. Rees cycl. 36. W. V. 515. Spr. syst. IV. 130. Hook. spec. I. 142. Kze. bot. z. V. 438. v. d. Bosch syn. Hym. 33. — Trich. tamariscinum Bory. Bél. Crypt. 81. — Trich. Pappei Kze. bot. z. V. 438.

Ins. Borboniae (Commerson. Bélanger. Boivin n. 909. Pappe. Vieillard). — Ins. Mauritii. — Madagascaria (Thouars).

## 2. Hymenophyllum Sm.

Hymenophyllum aeruginosum Dsv.

Dsv. Ann. Linn. VI. 332. Spr. syst. IV. 134. Carm. Trans. Linn. soc. XII. 573. Hk. sp. I. 94. t. 34. A. v. d. Bosch. syn. Hym. 75. Moore ind. syn. CXII. Trichomanes Poir. enc. VIII. 76. Thouars fl. Trist. d'Ac. 34.

Ins. Tristan d'Acunha (Thouars in hb. W. 20241. Carmichael. Cuming. 50). — Prom. bon. spei (Hb. Hooker).

Hymenophyllum capillaceum Roxb.

Roxb. in Beatson. St. Helena. 311. Antomarch. fl. Helen. 267. Kze. bot. z. V. 258. v. d. Bosch. syn. Hym. 46. Hook. spec. f. I. 109. t. 38. B. — Hymen. infortunatum Bory. Dupp. voy. 284. t. 38. f. 3. Hk. fl. antarct. 104. — Sphaerocionium infortunatum Pr. Hym. 35. — Hymen. capillare Pritch. cat. 18.

Ins. St. Helenae (Menzies, J. D. Hooker, M.'Rae, Perrottet, Roxburgh, Bennett, D'Urville. Burchell n. 195. Anderson).

Hymenophyllum capillare Dsv.

Dsv. Ann. Linn. VI. 333. Hk. sp. I. 91. v. d. Bosch. syn. Hym. 70. — Trichomanes hirsutum Aub. Thouars. fl. Trist. d'Acunha. 34. — Hymenophyllum pendulum Bory Bél. Crypt. 81. t. 8. f. 2. v. d. Bosch. syn. Hym. 70. Sphaerocionium Pr. Hym. 34. Hymen. elegans Hk. sp. I. 149. pt. — Hymenophyllum fulvum v. d. Bosch. Ned. Arch. V. 196. Hymen. pulchellum Willd. hb.

Ins. Borboniae (Bory. Desfont in hb. W. 20239. Boivin 902. Richard. Bélanger. De Montbrison). — Ins. Tristan d'Acunha (Aub. Thouars).

Hymenophyllum ciliatum Sm.

Sm. Act. Taur. V. 418. Sw. Schrad. j. 1800. II. 100. flor. Ind. occ. III. 1753, 2016. syn. 147. W. V. 519. Hk. Grev. ic. 35. Plum. t. 50. B. Hk. sp. I. 89. 149. Kz. bot. z. V. 186. Linn. IX. 108. C. Müll. bot. z. 12. 720. Spr. syst. IV. 134. Brack. expl. 263. v. d. Bosch. syn. 73. Sturm. fl. bras. I. 292. Lowe. f. IX. t. 69. c. Griseb. fl. brit. Westind. 659. Mett.

Digitized by Google

Ann. sc. nat. sér. V. t. II. 198. — Trichomanes Sw. prod. 136. Hedw. f. t. 9. Lam. enc. VIII. 72. Sphaerocionium Pr. Hym. 34. Hym. aculeatum v. d. Bosch. Ned. Arch. V. 179. — Reliqua synonyma referenda sunt ad specimina locis americanis enata.

Ins. Fernando Po (Hb. Hooker). — Madagascaria (Goudot. Boivin). — Ins. Comorae; ins. Mayotte (Boivin); ins. Johannae (Kirk). — Ins. Sechellae (Hb. Hooker). — Am.

var. Boryana Mett. msc.

Hymenophyllum hirsutum Bory. msc. Hymen. Boryanum W. sp. V. 518. Poir. suppl. V. 346. Spr. syst. IV. 134. Hook. spec. I. 89. 149. t. 31. c. Kze. bot. zeit. V. 198. Wall. cat. 167. v. d. Bosch. syn. Hym. 74. Sphaerocionium Pr. Hym. 34. t. 10. B. — Hym. angustatum Aub. Thouars in hb. W. Kze. bot. z. V. 186. — Hymen. Arbuscula Dsv. Ann. Linn. VI. 382. Hk. sp. I. 98. v. d. Bosch. syn. Hym. 76. — Hymen. decurrens Sw. syn. 146. pt.

Ins. Borboniae (Bory in hb. W. 20240. Boivin. Hb. Mertens). — Ins. Mauritii (Thouars hb. W. 20219. Sieber. fl. maur. 23. syn. f. 139. fl. mixt. 293. Wallich. Telfair).

## Hymenophyllum fumarioides W.

W. sp. V. 526. Poir. suppl. V. 307. Klf. en. 269. Schldl. adum. 56. (excl. syn.) Spr. syst. IV. 131. Kze. Linn. 10. 75, 555; 13. 513. — Hym. fumariaefolium Bory. msc. in W. — Hym. capense Schrad. gött. gel. Anz. 1818. 919. Hym. flabellatum Klf. Linn. VI. 187. Pappe et Raws. syn. f. cap. 53. ? — Hymen. Thunbergii Ecklon. Pr. Hym. 32. v. d. Bosch. syn. Hym. 64. — Hym. Natalense v. d. Bosch. syn. Hym. 46. — Hym. Zeyheri v. d. Bosch. syn. Hym. 48. — Hym. rarum Hk. sp. I. 101. pt. Kze. fil. I. 234. t. 96. bot. zeit. V. 241. Pappe et Raws. s. f. cap. 44. — Hym. tabulare v. d. Bosch. syn. Hymen. 57.

Prom. bon. spei (Krebs, Drège, Eckl. et Zeyher); prope Grahamstown (Atherstone); ad montem tabularem (Bergius); prope Gnadenthal (Breutel). — Natalia (Gueinzius). Ins. Mascarenae (Bory in hb. W. 20229. pt.).

var. debilis Mett. msc.

Hym. debile. Mett. in hb. Vindob. — Hymenoph. Limminghii v. d. Bosch. Ned. Arch. V. 151.

Ins. Comorae (Boivin).

## Hymenophyllum hygrometricum Dsv.

Dsv. Ann. Linn. VI. 333. Hk. spec. I. 112. Kze. bot. z. V. 260. v. d. Bosch. syn. Hym. 79. — Trichomanes Poir. enc. VIII. 79. Hymenophyllum elasticum Bory. W. V. 520. Poir. suppl. V. 346. Hk. et Grev. ic. t. 135. Spr. syst. IV. 134. Hk. spec. f. I. 93. 149. Kze. bot. z. V. 200. Bory. Bél. Crypt. 83.

Digitized by Google

v. d. Bosch. syn. Hym. 75. Sphaerocionium Pr. Hym. 34. t. 4. B. — Hymenophyllum Plumula Aub. Thouars in hb. W. — Hymenophyllum Telfairianum Wall. cat. 168. Hk. spec. I. 112. v. d. Bosch. syn. Hym. 79.

Ins. Borboniae (Bory in hb. W. 20244. Boivin, Perrottet). — Ins. Mauritii (Thouars in hb. W. 20243. Sieber syn. f. 78. fl. mixt. 294. Bojer, Boivin). — Madagascaria (Bernier, Thouars). — Ins. Sechellae (Pervillé).

var. flavo-aurea Mett. msc.

Hymenophyllum flavo-aureum Bory. Bél. Crypt. 84. v. d. Bosch. syn. Hym. 75.

Ins. Borboniae (Boivin 903. Pappe).

## Hymenophyllum inaequale Dsv.

Ann. Linn. VI. 335. Trichomanes Poir. enc. VIII. 74. Hymenophyllum gracile Bory. W. V. 527. Poir. suppl. V. 347. Hk. Grev. ic. t. 198. Hk. spec. f. I. 110. Kze. bot. z. V. 259. Brack. exp. 270. Wall. cat. 7084. v. d. Bosch. syn. Hym. 46. Sphaerocionium Pr. Hym. 35. Trich. pyxidiferum Sieb. fil. exs. — Trich. rubens Hedw. in hb. Klf. — Hymen. decrescens Mett. in hb. Franqueville. — Hymen. pauperculum v. d. Bosch in hb. Berol.

Ins. Borboniae (Bory in hb. W. 20231. Boivin 901. Perrottet, Hombron). — Ins. Mauritii (Sieber fl. maur. 22, Wallich, Carmichael, Bojer, Boivin). — Madagascar (Thouars). — P.

## Hymenophyllum laeve Ham.

Ham. Wall. cat. 2198.

Ins. Mauritii.

## Hymenophyllum Mannianum Mett. msc.

Rhizoma elongatum; folia distantia, membranacea, laete viridia, glaberrima; petiolus 2—3″ longus, teres; rhachis basi teres, superne alata, ala spinulosa; lamina 4—6″ longa, ovata s. oblonga, bipinnatisecto-bipinnatipartita; segmenta approximata, patentia, ovata s. oblonga, acuminata, secundaria inferiora soluta; laciniae obliquae, oblongae, manifeste spinuligero-serratae; sori axillares, ampli, ad medium bivalvi; labia ovata, attenuata, repanda, dentata; paraphyses nullae. (Mett. msc.)

Africa occidentalis; ins. Fernando Po. (Mann. n. 333. Hb. Hook.)

Indusii labiis attenuatis, repandis, non dilatatis, integerrimis ab H. multifido diversum.

## Hymenophyllum peltatum Dsv,

Dsv. Ann. Linn. VI. 333. — Trichomanes Poir. enc. VIII. 76. Hymenophyllum unilaterale Bory. W. V. 521. Klf. en. 268. Spr. syst. IV. 133. Hk. Hdb. fl. N. Zeal. 353. Lepto-

Digitized by Google

cionium v. d. Bosch gen. 318. — Hymenophyllum Wilsoni Hook. spec. I. 95. Kze. bot. z. V. 223. Hk. brit. f. 44. Newm. brit. f. 301. Moore brit. f. ed. III. 264. Moore et Lindl. f. n. print. 49. B. Webb. et Berth. phyt. can. 447. v. d. Bosch syn. Hym. 60. Gay. fl. chil. VI. 531. Sturm fil. chil. 44. Hk. fl. antarct. 390. fl. nov. Zeal. II. 11. fl. tasm. II. 133. Brack. expl. 264. — Hymenophyllum Meyeri Pr. Hymen. 31. 50. v. d. Bosch. syn. Hym. 63. Leptocionium v. d. Bosch. g. 318. — Hymenophyllum Serra v. d. Bosch. Ned. Arch. V. 171. Leptocionium v. d. Bosch. gen. 318. Hymenophyllum Menziesii Pr. Hymen. 31. 51. v. d. Bosch. syn. Hymen. 62. — Leptocionium v. d. Bosch. gen. 318. — Hymenophyllum Mettenii v. d. Bosch. Ned. Arch. V. 171.

**Ins. Madeira. — Ins. Canarienses. — Prom. bon. spei (Chamisso, Drège). — Natalia (Gueinzius). — Ins. Borboniae. — NH. Am. a.**

## Hymenophyllum Plumieri Hook. Grev.

Hook. Grev. ic. t. 123. (excl. cit. Plum.) Hook. sp. I. 89. Kze. bot. z. V. 186. v. d. Bosch. syn. Hym. 72. Sphaerocionium Pr. Hym. 34 pt. Sphaerocionium Sieberi Pr. Hym. 34. Hymenophyllum hirsutum Pr. rel. Haenk. I. 69. Hymenophyllum splendidum v. d. Bosch. Ned. Arch. V. 192.

**Africa occidentalis tropica. — Ins. Fernando Po. — Montes Cameroon. — Am. a. c.**

## Hymenophyllum polyanthos Sm.

Sm. Act. Taur. V. 418. Sw. Schrad. j. 1800. II. 102. fl. Ind. occ. III. 1757. 2016. syn. 149. W. V. 531. Hk. Grev. ic. 128. Hk. spec. I. 106. Kz. bot. zeit. V. 243. Linn. 21. 240. v. d. Bosch. syn. Hym. 49. Sturm. fl. bras. I. 288. Brack. expl. 270. Lowe. f. VIII. t. 8. A. Gay. fl. chil. VI. 532. Griseb. fl. Ind. occ. 658. Ettingh. farn. 231. t. 165. f. 15. — Trichomanes Sw. prod. 137. Hedw. f. t. 10. Lam. enc. VIII. 77. — Alia synonyma ad specimina locis americanis enata referenda sunt.

**Africa occidentalis tropica. — Am. c. a.**

## Hymenophyllum Sibthorpioides Mett. msc.

Trichomanes Sibthorpioides Bory. W. V. 498. Poir. suppl. V. 342. v. d. Bosch. Hym. jav. 9. in obs. — Trichomanes flabellatum Bory. Dupp. voy. 281. Bél. Crypt. 77. Hk. sp. I. 119. — Hymenophyllum palmatum v. d. Bosch. syn. Hymen. 45. — Trichomanes parvulum Klf. enum. 206. Spr. syst. IV. 128.

**Ins. Mauritii (Bory in hb. W. 20204. f. 1. Bélanger, Boivin).**

Digitized by Google

Hymenophyllum tenellum.

Adiantum tenellum Jacq. coll. III. (1789) 287. t. 21. f. 3. Sw. Schrad. j. 1800. II. 102. — Hymenophyllum ricciaefolium Bory. W. V. 531. Poir. suppl. V. 348. Hk. spec. I. 108. Spr. syst. IV. 132. Kze. bot. z. V. 258. v. d. Bosch. syn. Hym 58. Hym. jav. 57. in obs. Sphaerocionium Pr. Hym. 35. — Hymenophyllum fumarioides W. hb. pt. — Hymenophyllum crispum Boivin msc.

**Ins. Borboniae (Bory in hb. W. 20229 pt. et 20236. Jacquin. Boivin. 900. Pappe, Richard, Vieillard). — Madagascaria (Goudot).**

Hymenophyllum Tunbridgense Sm.

Sm. Act. Taurin. V. 418. Sw. Schrad. j. 1800. II. 100. fl. Ind. occ. in obs. 1748. syn. 147. Schk. 134. t. 135 d. W. V. 520. Rees Cycl. 18. Engl. bot. t. 162. Thbg. fl. cap. 737. Newm. brit. f. 297. Moore brit. f. ed. III. 261. Moore et Lindl. f. nat. print. 49. A. Hk. brit. f. 43. Lowe. f. VIII. t. 5. B. Hk. sp. I. 95. Kze. Linn. 10. 554. Webb. et Berth. phyt. can. 446. v. d. Bosch. syn. Hym. 63. Pappe et Raws. syn. f. cap. 44. Gay. fl. chil. IV. 530. Sturm. fl. chil. 44. Hk. fl. nov. Zeal. II. 11. Hdb. fl. n. Zeal. 352. fl. Tasm. II. 133. Brack. expl. 264. Rich. fl. nov. Zeal. 91. — Trichomanes L. sp. 7949. Hedw. f. t. 12. Lam. enc. VIII. 72. Leptocionium v. d. Bosch. gen. 318. — Hymenophyllum alatum W. V. 526. Poir. suppl. V. 342. Rees Cycl. 18. — Hym. asperulum Kze. Linn. IX. 109. v. d. Bosch. syn. Hym. 64. Leptocionium v. d. Bosch. gen. 318. — Hymenophyllum cupressiforme La Bill. fl. Nov. Holl. 102. t. 250. f. 2. Poir. suppl. V. 346. v. d. Bosch. syn. Hym. 62. Leptocionium v. d. Bosch. gen. 318. Hymen. tunbridgense β. cupressiforme Hk. sp. I. 95. fl. Nov. Zeal. II. 11. Hymenophyllum Drègeanum Pr. Hym. 32. 52. Ettingh. farn. 231. t. 158. f. 11. v. d. Bosch. syn. Hym. 63. Leptocionium v. d. Bosch. gen. 318. Hymenophyllum tunbridgense β. pedicellatum Kze. Linn. 10. 74. Hym. antarcticum Pr. Hymen. 31. 50. t. 12. A. v. d. Bosch. Ned. Arch. V. 175. Hymen. revolutum Col. Lond. journ. III. 30.

**Ins. Madeira. — Ins. Canarienses. — Prom. bon spei (Bergius, Drège, Ecklon, Zeyher, Frazer et alii). — Ins. Borboniae? — E. NH. Am. c. a.**

Digitized by Google

## Ordo. II. **Polypodiaceae R. Br.**

### **3. Acrostichum L. Fée. Mett.**

Acrostichum Aubertii Dsv.

Dsv. Berl. Mag. V. 309. journ. bot. III. 272. Hk. sp. V. 219. Fée gen. 43. Acrost. 45. t. 18. f. 1. — Elaphoglossum Moore ind. 352.

**Ins. Borboniae (Garnier 79. Bernier. Boivin 798). — Natalia; Ingoma (Gerrard). — Mons Dzomba ad flumen Zambeze (Kirk). — Ins. Fernando Po (Mann 662).**

Acrostichum Boivini Mett. msc.

Rhizoma abbreviatum, paleis rufescenti-fulvis, membranaceis, mollibus, lanceolatis, longe acuminatis dense vestitum; folia membranacea, laete viridia infra paleis minutissimis, subdilaceratis, supra paleis majoribus, fuscis, e basi ovata acuminatis sparse obsita, sterilium petiolus 3″ longus paleis patentibus fulvis, e basi latiore subulatis dense setosus; lamina $5\frac{1}{2}$″ longa, 9‴ lata, ovato-lanceolata, acuminata, basi oblique cuneato-truncata; fertilium petiolus 4″ longus, lamina sub 3″ longa, 8‴ lata, e basi oblique truncata latiore oblongo lanceolata, infra sporangiis onusta; nervi laxi, furcati, rami $\frac{3}{4}$‴ distantes, sub angulo 60—65° decurrentes, apice manifeste incrassato, supra sub foveola nigricante desinentes. (Mett. msc.)

**Ins. Mauritii (Boivin).**

Specimen juvenile rhizomate ac paleis omnino cum A. Aubertii h. n. congruum, forma laminae sterilis subovato-lanceolata insigne.

Acrostichum conforme Sw.

Sw. syn. 10. 192. t. 1. f. 1. W. V. 107. Poir. suppl. I. 118. Klf. en. 62. Schldl. adumbr. I. 14. Spr. syst. IV. 35. Dsv. Ann. Linn. VI. 208. Kze. Linn. 10. 495. Lk. hort. Berol. II. 45. spec. 149. Carm. Trans. Linn. Soc. 12. 509. Fée Acrost. 30. gen. 43. Mett. f. h. Lips. 19. Ettingh. farn. 5. t. 1. f. 22. t. 3. f. 6. Hk. sp. f. V. 198. Griseb. fl. brit. Westind. 677. Olfersia Pr. t. 234. Pappe et Raws. syn. f. cap. 44. — Acrostichum oblongum Dsv. Berl. Mag. V. 308. journ. bot. III. 211. Ann. Linn. VI. 208. Poir. suppl. V. 533. — Acrost. angustatum Schrad. gött. gel. anz. 1818. 915. Schldl. adumbr. 14. t. 5. Kz. Linn. 10. 494. Spr. syst. IV. 35. — Olfersia Pr. t. 234. Pappe et Raws. syn. f. cap. 44. —

Digitized by Google

Acrostichum glandulosum Carm. Hk. Grev. ic. t. 3. — Acrostichum latifolium Sw. Schrad. j. 1801. 271; 1803. II. 273. (non synops.) Acrost. laurifolium Aub. Thouars. fl. Trist. d'Ac. 31. — Olfersia Pr. t. 234. — Elaphoglossum conforme Schott. gen. (sub. t. 15.) J. Sm. Hk. journ. bot. IV. 148. Cat. Kew. f. 3. Moore et Houlst. Gardn. Mag. Bot. III. 94. f. 22. Moore ind. 353. syn. XVI. t. 3. B. — Acrostichum conforme β. Schraderi Fée Acrost. 31. Gen. 43. Acrost. conforme β. angustatum Kze. Linn. X. 495. Fée Acrost. 31. Gen. 43. — Elaphoglossum conforme β. angustatum Moore ind. 354. — Elaphoglossum conforme γ. glandulosum Moore ind. 354. — Vittaria acrostichoides Hk. Grev. ic. t. 186. Fée Vitt. 24. gen. 86. Kze. Linn. 10. 528. Pappe et Raws. syn. f. cap. 53. — Drymoglossum acrostichoides Moore syn. XXXI. ind. 343.

**Sierra Leone (Barter. 1816. 1903). — Ins. Principis (Barter). — Ins. St. Helenae (Thouars hb. W. 19524. Burchell. 178. J. D. Hooker. Haughton). — Ins. Tristan d'Acunha (Thouars, Carmichael, Milne). — Prom. bon. spei. (Ecklon et Zeyh. 9. 10. Zeyh. 226. 4604. Mundt. et Maire. Drège. Krauss. 739. Burchell. 479. Chamisso. Sieb. syn. f. 256.) Ad montem Tafelberg (Bergius); prope Gnadenthal (Breutel). (Burchell cat. 5851). — Natalia (Gueinzius).**

Acrostichum Deckenii.

Cf. pag. 16.

**In monte Kilimandjaro (Kersten. 5).**

Acrostichum didynamum Fée.

Fée Acrost. 37. t. 16. f. 2. gen. 43. Hk. sp. V. 206. Elaphoglossum Moore ind. 355.

**Ins. Borboniae.**

Acrostichum dimorphum Hk. Grev.

Hk. Grev. ic. t. 145. Fée Acrost. 40. gen. 43. Hk. spec. V. 209. ic. fil. cent. II. t. 90. — Olfersia Pr. t. 235. Elaphoglossum Moore ind. 355.

**Ins. St. Helenae (Shuter, J. D. Hooker. Haughton, Macrae, Burchell 180).**

Acrostichum ellipticum Fée.

Fée Acrost. 30. t. 4. gen. 43. — Elaphoglossum Moore ind. 355. Acrost. latifolium Sieber. syn. fil. 26. partim ex Fée.

**Ins. Mauritii (Sieber). Species mihi valde dubia.**

Acrostichum falcatum Fée.

Fée Acrost. 44. t. 21. f. 1. gen. 43. Hk. sp. V. 217. Elaphoglossum Moore ind. 356. — Acrostichum coriaceum Wall. cat. 14. pt. — Acrostichum stigmatolepis Fée Acrost. 62. t. 24. f. 2. gen. 43. Hk. sp. V. 216. — Acrost. angulatum

Digitized by Google

Kze. Linn. 24. 248. Elaphoglossum stigmatolepis Moore syn. XVI. ind. 368. — Acrost. nigrum. Zippel. msc.

**Ins. Borboniae (Lepervanche et Richard). — Ins. Mauritii (Wallich. Boivin). — As.**

## Acrostichum glabrescens.

Olfersia Pr. t. 234. Aconiopteris Pr. ep. 166. — Acrostichum heterolepis Fée Acrost. 56. t. 15. f. 1. gen. 43. Hk. spec. V. 234. Elaphoglossum Moore ind. 357. Acrostichum vestitum Ham. Wall. cat. 2164. Acrostichum obductum Klf. pt. — Acrostichum tomentosum Bory. msc.

**Ins. Borboniae (Boivin. 800). — Ins. Mauritii (Sieber. fl. mixt. 281. pt.)**

## Acrostichum hybridum Bory.

Bory. voy. III. 96. Sw. syn. 11. W. V. 107. Poir. enc. suppl. I. 119. Spr. syst. IV. 35. Dsv. Ann. Linn. VI. 209. Wall. cat. 13. Hk. Grev. ic. t. 21. Fée Acrost. 40. t. 9. f. 4. gen. 43. Hk. sp. V. 210. Ettingh. farn. 4. t. 4. f. 6. — Acrostichum Hubertianum Bory. hb. Fée Acrost. 40. — Acrost. villosum Sieb. syn. f. — Olfersia hybrida Pr. t. 235. t. 10. f. 13. Elaphoglossum hybridum Moore ind. 358. Brack. expl. 269. — Acrostichum hybridum α. submembranaceum, β. subcoriaceum Hk. spec. V. 211. — Acrostichum ciliare Carm. Trans. Linn. Soc. 12. 510. — Acrostichum podotrichum Dsv. Berl. Mag. V. 309. Journ. bot. III. 271. Acrostichum hybridum β. Vulcani Leperv. Fée Acrost. 41. t. 9. f. 3. gen. 43. Hk. sp. V. 211. Elaphogl. hybridum γ. minus Moore. ind. 358.

**Ins. Fernando Po (Mann 663). — Montes Cameroon (Mann 377). — Ins. Tristan d'Acunha (Thouars. Carmichael). — Africa australis extratropica (Burchell. cat. 5152). — Ins. Borboniae (Bory et Thouars in hb. W. 19526. Labillardière. Pappe. Vieillard. Boivin 796 partim). — Ins. Mauritii (Sieb. syn. f. 27. fl. mixt. 280. Bouton. Bojer). — Ins. Comorae; ins. Angasilia (Kersten 1. 2); ins. Johannae.**

## Acrostichum laurifolium Fée.

Fée Acrost. 36. t. 7. f. 1. (non Aub. Thouars.) Gen. 43. Lowe f. VII. t. 59. A?. Hk. spec. V. 198. pt. Elaphoglossum Moore syn. XVI. ind. 359.

**Ins. Borboniae. — Ins. St. Helenae (ex Fée). Patria mihi valde dubia.**

## Acrostichum Lepervanchii Bory hb.

Fée Acrost. 37. t. 9. f. 1. Fée gen. 43. Hk. sp. V. 206. Elaphoglossum Moore ind. 359.

**Ins. Borboniae (Bory).**

## Acrostichum macropodium Fée.

Fée Acrost. 30. t. 6. f. 2. gen. 43. Hk. sp. V. 198. Elaphoglossum Moore ind. 360.

Digitized by Google

Ins. Borboniae (Ex Herb. Mus. Paris.). — Ins. Mauritii (Bory. Wallich. Boivin).

## Acrostichum Mannianum Mett. msc.

Ins. Fernando Po (Mann. 668). — Montes Cameroon (Mann. 2062).

## Acrostichum martinicense Dsv.

Dsv. Berl. Mag. V. 309. Ann. Linn. VI. 209. Spr. syst. IV. 34. Fée Acrost. 45. t. 16. f. 3. gen. 43. etc. Elaphoglossum Moore ind. 361.

Madagascaria (ex Moore l. c.). Verisimiliter species propria vel ad aliam referenda. — Am. c. a.

## Acrostichum microphyllum Mett. msc.

Rhizoma repens, crassum, paleis castaneis rigidis 2—3‴ longis, lanceolatis!, acuminatis dense obtectum; folia densa, coriacea infra praesertim ad costam et marginem una cum petiolo paleis fuscis, ovatis, acuminatis, patentibus ornata; sterilium petiolus $^1/_2$—$2^1/_2$″ longus, lamina $^3/_4$—$2^3/_4$″ longa, ad 1″ lata, oblonga vel ovata, basi et apice acuta vel obtusa; nervi prominuli, furcati, inferiores bis furcati, sub angulo 80° decurrentes; fertilium petiolus $1^1/_2$″ longus, lamina 6‴—$1^1/_2$″ longa, 4—8‴ lata, elliptica vel ovata, obtusiuscula, basi attenuata. (Mett. msc.)

Ins. Borboniae (Boivin 797).

Diu haesitavi, num forte planta descripta statum juvenilem A. hybridi sisteret; paleis autem rhizomatis rigidis, multo brevioribus speciem propriam esse demonstrari puto, quamquam forte planta evoluta habitu aliter se gereret. (Mett. msc.)

## Acrostichum nervosum Bory.*

Bory Dupp. voy. 253 (1828). — Olfersia nervosa Moore syn. XVIII. ind. 12. 15. — Acrostichum subdiaphanum Hk. Grev. (1831.) ic. t. 205. Hk. sp. V. 255. — Aconiopteris Pr. t. 234. t. 10. f. 17. epim. 166. Hk. gen. t. 79. A. Fée Acrost. 79. gen. 52. — Acrostichum lanceolatum Roxb. Beatson. St. Helena. 296. Antomarch. fl. Helen. 260. Pritchard cat. fl. Helen. 4.

Ins. St. Helenae (Roxburgh, Walker, Dallas, D'Urville, J. D. Hooker, Nuttall, Burchell 179).

## Acrostichum obtusatum Carm.

Carm. Trans. Linn. Soc. 12. 510. Hk. Grev. ic. f. t. 22. — Acrostichum Jamesoni β. obtusatum Fée Acrost. 52. gen. 43. — Acrostichum cenobarbum Carm. msc. — Elaphoglossum piloselloides β. obtusatum Moore ind. 363. — Acrostichum piloselloides β. obtusatum Hk. Exot. fil. t. 29. spec. fil. V. 227.

Ins. Tristan d'Acunha (Carmichael).

Digitized by Google

## Acrostichum ovalifolium Bojer.

Bojer. Hort. Maurit. 414.

**Ins. Mauritii.**

## Acrostichum Richardi Bory hb. Fée.

Hk. spec. V. 256. — Aconiopteris (Nebroglossa) Richardi Fée Acrost. 80. gen. 52. Olfersia Richardi Moore ind. 1.

**Ins. Borboniae (Gaudichaud. Boivin).**

## Acrostichum rufidulum Willd. hb.

Rhizoma ?, folia subcoriacea, paleis lanceolatis, dilacerato-ciliatis, supra sparse, infra densius obsita; sterilium petiolus basi paleis paucis, castaneis, ceterum pallide rubellis squamosus, 3″ longus; lamina $4^1/_2$″ longa, 5″ lata!, lanceolata, utrinque acuminata; nervi immersi, translucentes, $^1/_2$‴ circiter distantes, sub angulo 15° decurrentes; fertilia folia desunt. — Acrostichum muscosum Lam. in sched.

**Madagascaria (Lamark in hb. Willd. 19511).**

Paleae paginae inferioris dilaceratae velut in A. vestito, superioris magis ciliatae; nervis obliquis autem ab omnibus speciebus hujus sectionis recedens.

## Acrostichum sejunctum.

Acrostichum villosum Sw. *β.* Poeppigianum Hook. sp. V. 255 partim.

**Sierra Leone (Barter).**

Observ. Cl. Hooker sub. Acrosticho villoso complures species conjunxit, e quibus nostra Africana species satis distincta mihi videtur.

## Acrostichum Sieberi Hk. Grev.

Hook. Grev. ic. f. t. 237. Fée Acrost. 29. gen. 43. Hk. spec. V. 197. — Elaphoglossum Moore ind. 366. Olfersia Pr. t. 235. — Acrostichum latifolium Sieb. fil. exs. — Acrostichum coriaceum Wall. cat. 14. pt.

**Ins. Fernando Po (Mann 370. pt. ex Moore). — Ins. Borboniae (Bory. Ex Herb. Mus. Paris.). — Ins. Mauritii (Commerson, Sieber. s. f. 26., Bojer, Carmichael, Andersson).**

## Acrostichum spathulatum Bory.

Bory. it. I. 363. t. 20. f. 1; II. 161. Sw. syn. 10. W. V. 106. Poir. enc. suppl. I. 119. Spr. syst. IV. 34. Dsv. Ann. Linn. Soc. VI. 209. Pr. rel. Haenk. I. 15. Fée Acrost. 51. t. 14. f. 3. gen. 43. Thwaites. Ceyl. pl. 380. — Elaphoglossum spathulatum Beddom F. S. Ind. 71. t. 213. — Acrostichum ciliare Aub. Thouars. fl. Trist. d'Ac. 32. — Acrosti-

Digitized by Google

chum piloselloides Pr. δ. spathulatum Hk. sp. V. 228. exot. f. 29. Elaphoglossum piloselloides Moore δ. spathulatum Moore ind. 364. — Olfersia spathulata Pr. t. 233. pt.

**Ins. Borboniae (Bory. Boivin. 796. pt.). — Madagascaria (ex Moore l. c.). — Natalia; Ingoma (Gerrard). — Ins. Tristan d'Acunha (Aub. Thouars in hb. W. 19517). — As.**

Acrostichum spinulosum Noronha.

Noronha ex Aub. Thouars prod. phyt. (Mél. et Voy. 1811).

**Madagascaria.**

Acrostichum splendens Bory.

Bory. W. V. 104. Poir. suppl. I. 120. Klf. en. 60. pt. Spr. syst. IV. 34. pt. Dsv. Ann. Linn. Soc. VI. 209. Gaud. Freyc. 303. Fée Acrost. 60. t. 21. f. 2. gen. 43. — Elaphoglossum splendens Moore syn. XVI. ind. 367. Olfersia splendens Pr. t. 233. — Acrostichum Mezierii Bory. msc. in hb. mus. Paris. — Acrostichum squamosum Hk. sp. V. 239. pt. — Acrostichum splendens Bory v. Angasiliensis cf. pag. 16.

**Ins. Borboniae (Bory in hb. W. 19515. Gaudichaud). — Madagascaria (ex Moore l. c.). — Ins. Comorae; ins. Angasilia (Kersten. n. 3); ins. Johannae. — Africa occidentalis tropica: Montes Cameroon (Mann 1378). Ad flumen Niger (Barter). Montes Sugarloaf (Barter 1378).**

Acrostichum squamosum Sw.

Sw. Schrad. j. 1800. II. 11. syn. 10. 195. Schk. 184. t. 1. b. Poir. suppl. I. 119. Kze. Linn. IX. 30. Liebm. Mex. Breg. n. 24. Lowe f. VII. t. 48. Hk. sp. V. 239. pt. Griseb. fl. brit. Westind. 676. Hochst. fl. azor. n. 170. Seubert fl. azor. 14. — Elaphoglossum squamosum J. Sm. Hk. journ. bot. IV. 148. Moore ind. 367. — Acrostichum Loweanum Kze. hb. Fée Acrost. 61. — Acrostichum Lowei Fée hb. Acrost. 4. 9. — Acrostichum vestitum Lowe. Hk. Grev. ic. 235. — Acrostichum paleaceum Hk. Grev. ic. 235. Lowe novit. fl. mader. 523. Olfersia Pr. t. 234.

**Ins. Madeira. — Ins. Canarienses. — Am. c.**

Acrostichum stipitatum Bory.

Bory. Fée Acrost. 38. t. 4. f. 3. gen. 43. Hk. sp. V. 207. Elaphoglossum Moore ind. 368.

**Ins. Borboniae (Bory).**

Acrostichum succisaefolium Aub. Thouars.

Aub. Thouars. fl. Tristan d'Acunha 31. Poir. suppl. I. 120. Carm. Linn. Trans. 12. 510. Klf. en. 60. Spr. syst. IV. 35. Dsv. Ann. Linn. VI. 208. Hk. Grev. ic. t. 2. Fée Acrost. 61. gen. 43. Hk. sp. V. 241: — Olfersia succisaefolium Pr.

Digitized by Google

t. 235. Elaphoglossum Moore ind. 368. — Acrostichum ciliatum Dsv. Berl. Mag. V. 513. journ. bot. III. 273. — Acrostichum macropodium Carm. msc.

Ins. Tristan d'Acunha (Thouars). — Ins. Mauritii.

Acrostichum tomentosum Bory.

Bory. W. V. 101. Poir. suppl. V. 532. Spr. syst. IV. 34. Olfersia Pr. t. 234. — Acrostichum obductum Klf. Wes. d. farnkr. 74. Spr. syst. IV. 34. Fée Acrost. 59. gen. 43. Hk. sp. V. 237. Ettingh. farn. 6. t. 3. f. 4. Elaphoglossum Moore ind. 362. — Acrostichum lanceolatum W. hb. — Acrost. macrolepis Bojer.

Ins. Borboniae (Flügge in hb. W. 19508. Thouars in hb. W. 19510. Boivin). — Ins. Mauritii (Sieber syn. fil. 25. fl. mixt. 281 pt. Bojer, Bouton, Gardner, Andersson). — Madagascaria. (ex Moore l. c.).

Acrostichum viscosum Sw.

var. salicifolium Fée Acrost. 46. gen. 43.

Acrostichum salicifolium W. hb. Klf. en. 58. Spr. syst. IV. 33. Olfersia Pr. t. 234. — Acrostichum viscosum Bl. fl. jav. 27. — Acrostichum neriifolium Wall. cat. 16. Olfersia Pr. t. 235. — Acrostichum lancifolium Dsv. Berl. Mag. V. 310. journ. bot. III. 372. Poir. suppl. V. 533. — Elaphoglossum viscosum Schott. Moore ind. 369. Beddom F. S. India 67. t. 196.

Ins. Borboniae (Desfontaines in hb. W. 19509). — Ins. Mauritii (Sieb. syn. f. 28. Bory. Bouton). — Ins. Comorae; ins. Angasilia (Kersten n. 4). — Angola (Welwitsch. 187). — Ins. Fernando Po (Mann 370 pt.). — As.

## 4. Hymenolepis Klf.

Hymenolepis spicata Presl.

Pr. epim. 159. Beddom F. S. India 15. t. 46. Moore syn. fil. XXVIII. t. XV. A. — Schizaea spicata Sm. Act. Taurin. V. 43. Onoclea Sw. Schrad. j. 1803. II. 299. syn. 110. 303. Acrostichum L. suppl. 444. Sm. ic. ined. t. 49. Lam. enc. I. 34. Poir. suppl. I. 127. Hk. sp. V. 280 pt. Thwait. Ceyl. 381. — Lomaria W. V. 289. — Gymnopteris Pr. t. 244. t. 11. f. 7. — Hymenolepis ophioglossoides Klf. en. 146. t. 1. f. 9. Bory. Dupp. voy. 273 pt. Boj. hort. Maurit. 407. — Omnia reliqua synonyma ad alias formas Hym. spic. referenda sunt.

Ins. Borboniae (Bory in hb. W. 19838. f. 1). — Ins. Mauritii (Sieber. syn. f. 180. Commerson in hb. W. 19838. f. 2. D'Urville. Pappe). — Madagascaria (Chapelier. Boivin. 803. Meller). — As. P.



Digitized by Google

## 5. Chrysodium Fée Mett.

### Chrysodium aureum Mett.

Mett. f. h. Lips. 21. — Acrostichum aureum L. sp. 1525. Sw. Schrad. j. 1800. II. 12. syn. 13. W. V. 116. Lam. enc. I. 36. Poir. suppl. I. 122. Cav. dem. 240. n. 586. Klf. en. 65. Spr. syst. IV. 36. Bory. Dup. 253.? Willem. Hb. Maur. 61. Hk. gen. t. 81. sp. V. 266. Sm. Bot. Herald. 233. Brack. expl. 82. Thwait. Ceyl. 380. Moore syn. XXI. ind. 5. t. VIII. B. Lowe f. VII. t. 42. Beddom. F. S. Ind. 69. t. 204. Benth. fl. Hongk. 443. Wawra. Brasil. 210. — Chrysodium vulgare Fée Acrost. 97. gen. 61. Mett. Ann. sc. nat. sér. IV. t. 15. 59. sér. V. t. II. 204. Griseb. fl. Ind. occ. 675. Ettingh. farn. 10. t. 11. f. 4—7; t. 12. f. 7—8. t. 13. f. 12. — Acrostichum inaequale W. V. 117. Poir. suppl. V. 533. Bl. fl. jav. 40. t. 16. Pr. Epim. 182. Pappe et Raws. 44. Kze. Linn. 21. 207. bot. zeit. VI. 103. Chrysodium inaequale Fée Acr. 100. — Acrostichum speciosum W. V. 117. Poir. suppl. V. 533. Bl. fl. jav. 42. t. 47. Kze. bot. zeit. VI. 102. Boj. hort. Maur. 414. — Acrostichum aureum $\gamma$. rigens Moore ind. 5. Chrysodium vulgare $\beta$. minus Fée Acr. 99. — Acrost. maritimum Gueinz. msc. — Reliqua synonyma referenda sunt ad specimina locis americanis, indicis, australasicis enata.

Africa occidentalis: — Sierra Leone (Don). — Ins. Fernando Po (Mann, Vogel). — Ins. Principis (Barter). — Congo (Smith). — Africa orientalis: Sinus Algoa (Stanger). — Natalia (Krauss. Plant. 312. Gueinzius); prope Macalisberg (Sanderson). — Ad flumen Zambeze (Kirk). — Ins. Mauritii (Sieber. fl. maur. suppl. 3). — Ins. Borbonia. — Madagascaria. — As. P. NH. Am. c. a.

### Chrysodium bipinnatifidum Mett. msc.

Rhizoma repens, validum, paleis lanceolatis, fuscis squamosum; folia membranacea, firma, supra opaco-viridia, infra ad costas paleis paucis squamulosa, sterilium petiolus 5″ longus, stramineus, rhachis marginata; lamina 9″ longa, ovata, acuminata, pinnatisecto-pinnatipartita s. basi deorsum subbipinnatisecta; supra sub apice e costa prolifera; segmenta patentia, e basi inaequali, superiore truncata s. subcordata, inferiore cuneata s. rotundata, elongata, attenuata, infima brevi petiolulata, superiore basi deorsum adnata s. decrescentia, suprema in apicem pinnatifidum confluentia, lobi laciniaeve ala manifesta coadunatae, semioblongo-ovatae s. elongato-oblongae, serratae; dentes herbacei, obtusi s. acuti, basales interni ad sinus loborum maximi; nervi in pagina inferiore manifesti, catadromi; maculae ad sinus laciniarum bi-subtriseriatae, secus costulas uniseriatae. (Mett. msc.) — Poecilopteris bipinnatifida Boiv. msc.

Ins. Sechellae (Boivin). — Ins. Borboniae (Boivin).

Digitized by Google

## Chrysodium Boivini.

Rhizoma?; folia chartacea, opaco-viridia, glabra; sterilium petiolus 9″ longus, livido-stramineus; lamina 10″ longa, ovato-acuminata, pinnatisecta, apice pinnatifida, supra sub apice prolifera; segmenta 3—4-juga, approximata, patentia, lanceolato-oblonga, acuminata, integerrima, infima breviter petiolata, basi superiore truncata, inferiore cuneata, superiore brevius petiolata vel basi inferiore decurrente adnata, utrinque cuneata, suprema in apicem basi pinnatipartitum confluentia, laciniis 3-jugis, sinubus acutis distinctis, oblongis, acuminatis, falcatis, infimis, maximis decurrentibus; costulae manifestae, vix prominulae, maculae utrinque ad costam irregulariter 3—5-seriatae, costulae amplae, plerumque appendiculatae, ceterae appendiculatae vel radiatae vel in maculas secundarias divisae; arcus Pleocnemiae inter lacinias coadunatas, exappendiculatas, macularum series ad sinus laciniarum 2—3 irregulares appendiculatae; fertilium? (Mett. msc.)

Ins. Comorae; ins. Mayotte (Boivin). — Angola (Welwitsch. Iter Angolense n. 156).

## Chrysodium fluviatile.

Acrostichum (Gymnopteris) fluviatile Hk. sp. V. 274.

Ins. Fernando Po (Mann 442). — Ad flumen Niger (Barter). — Africa occidentalis tropica (Curror).

## Chrysodium Gaboonense.

Acrostichum (Gymnopteris) Gaboonense Hk. sp. f. V. 270.

Ad flumen Gaboon (G. Mann). — Angola (Welwitsch. Iter Angolense 155).

## Chrysodium Heudelotii.

Gymnopteris Heudelotii Bory in Fée Acrost. 84. t. 45. gen. 56. — Acrostichum Hk. sp. f. V. 264. — Anapausia Pr. Epim. 187. Moore syn. XXI. ind. 63.

Senegambia (Heudelot). — Sierra Leone (Barter). — Africa orientalis tropica; regio Mangauja ad flumen Zambeze (Kirk).

## Chrysodium punctatum Mett. msc. (non punctulatum).

Acrostichum L. suppl. 444. — Acrostichum punctulatum Sw. Schrad. j. 1800. II. 12. syn. 13. W. sp. V. 118. Spr. syst. IV. 37. Boj. hort. Maur. 414. Poecilopteris Pr. t. 239. epim. 173. — Cyrtogonium J. Sm. Hk. journ. bot. IV. 154. — Heteroneuron Fée Acrost. 91. t. 54. Gen. 60. Chrysodium Mett. f. h. Lips. 21. Ettingh. farn. 11. t. 9. f. 1; t. 14. f. 1; t. 15. f. 3. — Acrostichum auriculatum Lam. enc. I. 36. —



Digitized by Google

Acrost. Mascarense Spr. syst. IV. 37. Boj. hort. Maurit. 414. — Acrost. Finlaysonianum Wall. cat. 2162.

Ins. Fernando Po (Barter 1451. Mann 133). — Ins. Principis (Barter 1899). — Africa occidentalis tropica (Curror). — Angola (Welwitsch. Iter angolense 153). — Ins. Comorae; ins. Johannae (Kirk). — Ins. Nossi-beh ad Madagascariam (Boivin). — Ins. Borboniae (Thouars in hb. W. 19552). — Ins. Mauritii (Commerson, Sieber s. f. 24. Boivin).

Chrysodium salicinum.

Acrostichum (Heteroneuron) salicinum Hook. sp. f. V. 265.

Sierra Leone (Barter). — Ins. Fernando Po (Mann 1339).

Chrysodium n. spec.

Angola (Welwitsch. Iter Angolense n. 157).

## 6. Polybotrya H. B. K.

Polybotrya acrostichoides Mett. msc.

Hemionitis Afzelius. Sw. Schrad. j. 1800. II. 17. syn. 21. W. V. 130. Poir. suppl. III. 38. J. Smith. Rees Cycl. XVIII. — Gymnogramme Dsv. Berl. Mag. V. 304. Dsv. journ. bot. III. 25. Klf. en. 80. Spr. syst. IV. 40. Hassk. cat. hort. Bogor. 4. — Acrostichum virens Hk. spec. V. 261 partim.

Ad flumen Senegal (Heudelot 702). — Sierra Leone (Afzelius, Barter, Rendall). — Ins. Fernando Po (Barter). — Angola (Welwitsch. Iter Angolense 154). — As.?

Polybotrya furcata Mett. msc.

Adiantum furcatum L. suppl. 447. Pluck. Alm. t. 350. f. 4. — Osmunda bifurcata Jacq. coll. III. 282. t. 20. f. 4. Lam. enc. IV. 654. Acrostichum Sw. Schrad. j. 1800. II. 13. syn. 12. W. V. 114. Schk. f. 3. t. 2. Poir. suppl. I. 122. Roxb. fl. Helen. 296. Antomarch. fl. Helen. 260. Pritch. cat. fl. Helen. 4. Spr. syst. IV. 36. Hk. sp. V. 209. ic. fil. cent. II. t. 91. Ettingh. farn. 2. t. 1. f. 7—8. Mett. f. h. Lips. 18. — Gymnogramme Klf. Wes. d. Farnkr. 181. Kze. Linn. 10. 496; 24. 249. — Polybotrya J. Sm. Hk. journ. bot. IV. 150. Moore syn. XV. — Microstaphyla Pr. epim. 160. Fée mém. VII. 45. t. 13. f. 1. VIII. 113. — Olfersia Pr. t. 234. — Darea? furcans Bory. Dupp. voy. 269. t. 25. f. 2. — Anogramme? paradoxa Fée gen. 64. 184.

Ins. St. Helenae (Hoffmansegg in hb. W. 19534. Lichtenstein. 15. Mundt. Cuming 420. Macrae. Burchell 177. Andersson et multi alii peregrinatores). — Ins. Ascensionis (D'Urville).

Polybotrya tenuifolia.

Lomaria Dsv. Berl. Mag. V. 326. Boj. h. Maur. 407. Spr. syst. IV. 65. — Lomariobotrys Fée. gen. 46. — Lomaria

Digitized by Google

Meyeriana Kze. Linn. 10. 509. Lomariobotrys Fée. gen. 45. t. 5. f. A. — Stenochlaena Pr. Epim. 116. Moore ind. syn. XVII. Lowe f. IV. 47. 48. Pappe et Raws. syn. f. cap. 43. — Polybotrya Mett. f. h. Lips. 24. t. I. f. 4. 7. — Acrostichum Hk. Gard. f. t. 16. Spec. fil. V. 250. — Lomaria secunda Wall. cat. 34 pt. — Lomaria longifolia Wall. cat. add. 61. — Lomaria grandis Boj. hort. Maurit. 407.

Prom. bon. spei (Drège). — Natalia (Gueinzius, Plant.). — Littora Africae orientalis tropicae (Bojer). — Ins. Mauritii (Wall). — Ins. Nossi-beh ad Madagascariam (Boivin). — Madagascaria (Commerson, Meller). — Ins. Sechellae (Pervillé 464).

## 7. Lomariopsis Fée.

Lomariopsis guineensis.

Ins. Fernando Po (Mann 139). — Ins. St. Thomae. — Congo (Ch. Smith). — Angola (Welwitsch. Iter angolense 68).

Lomariopsis palustris Mett. msc.

Acrostichum palustre Hook. sp. V. 214. Elaphoglossum melanostictum Moore ind. 361 pt.

Littora fluminis Onitoha (Barter 1452). — Sierra Leone (Barter). — In paludibus sinus Ambas (Mann 785). — Montes Cameroon (Barter).

Lomariopsis Pervillei Mett. msc.

Rhizoma?; folia coriacea, glabra, difformia, sterilium petiolus 4″—? longus; lamina?, oblonga, pinnata; pinnae oblique patentes, sessiles, subapproximatae, 6‴ longae, 9‴ latae, e basi inaequali, inferiore longe cuneata, superiore exciso oblique truncata, linearia sensim attenuata, acuminata, integerrima; nervi densi, vix $1/2$‴ distantes, furcati, obliqui, sub angulo 55—60° decurrentes; fertilium lamina?; pinnae brevissime petiolulatae, lineares 5″ longae, 1‴ latae. (Mett. msc.) Lomâriopsis acuminata Fée gen. 45. (excl. cit. Desv.)

Ins. Sechellae (Pervillé 96).

Lomariopsis pollicina Mett. msc.

Osmunda Willemet. hb. Maur. 61. — Lomaria fraxinea W. sp. V. 294. Bojer. h. Maurit. 406. Poir. suppl. IV. 149. Spr. syst. IV. 63. Dsv. Ann. Linn. VI. 290. — Acrostichum trifrons Comm. msc. Osmunda Bory. voy. 163. — Lomaria integrifolia Klf. Spr. syst. IV. 63. — Olfersia Pr. t. 235. — Acrostichum lomarioides Bory Bél. Crypt. 21. t. 2. Olfersia Pr. t. 235. — Lomaria elliptica Bojer h. Maurit. 406. Lomaria secunda Wall. cat. 34 pt. — Lomariopsis Boryana Fée Acrost. 68. Mett. f. h. Lips. 22. Ettingh. farn. 14. t. 5. f. 3; t. 10. f. 1—3. — Lomaria crenata W. hb. pt. — Lomaria nitida W. hb.

Digitized by Google

Ins. Fernando Po (Mann 374. 444). — Ins. Principis (Barter). — Ad flumen Niger (Barter 1902). — Ins. Comorae; ins. Johannae (Kirk). — Madagascaria (Meller, Thouars in hb. W. 19850. 19851. f. 1). — Ins. Mauritii (Sieber syn. f. 23. fl. mixt. 282. Bory in hb W. 19848. Wallich). — Ins. Borboniae (Delise).

var. buxifolia Mett. msc.

Polypodium orbiculatum Poir. enc. V. 521. Lomaria Dsv. Ann. Linn. VI. 289. Lomaria crenata W. hb. pt. — Acrostichum buxifolium Kze. fil. 171. 252. t. 72. Hk. sp. V. 243. — Lomariopsis Fée. gen. 45. Acrostich. 69. Mett. fil. hort. Lips. 22.

Madagascaria (Goudot, Meller, Thouars in hb. W. 19851. f. 2).

## Lomariopsis polyphylla.

Acrostichum polyphyllum Hk. sp. V. 243.

Montes Cameroon (Mann 1391).

## Lomariopsis sorbifolia Fée.

Fée Acrost. 69. Mett. f. h. Lips. 22. Ettingh. farn. 13. t. 10. f. 6—8. — Acrostichum L. sp. 7778. Lam. enc. I. 36. Poir. suppl. I. 128. W. V. 114. Klfs. Wes. d. Farnkr. 70. Hk. sp. V. 241 pt. Wawra Brasil. 210. — Onoclea Sw. Schrad. j. 1800. II. 74. syn. 112. — Olfersia Pr. t. 243. — Lomaria Dsv. Ann. Linn. VI. 290. Klf. Enum. 152. — Stenochlaena J. Sm. Griseb. fl. brit. Westind. 674.

Africa occidentalis tropica. — Am. c. a.

## Lomariopsis variabilis Fée.

Fée Acrost. 70. t. 31. gen. 45. Mett. f. h. Lips. 22. Moore syn. XVII. — Lomaria W. sp. V. 294. Schldl. Linn. V. 613. Bojer. hort. Maurit. 407. Spr. syst. IV. 63. — Onoclea Poir. suppl. IV. 149. — Olfersia Pr. t. 235. — Onoclea myriothecaefolia Bory msc. — Lomaria marattiaefolia Dsv. Ann. Linn. VI. 291. — Lomaria acrostichoides Klf. Spr. syst. IV. 63. — Lomariopsis cuspidata Fée Acrost. 68. t. 27.

Ins. Mauritii (Bory in hb. W. 19849. Sieb. syn. f. 22).

# 8. Monogramme Schk. Dsv.

## Monogramme graminea Schk.

Schk. 82. Dsv. Berl. Mag. (1811) V. 302. journ. bot. I. 22. t. 2. f. 3. Ann. Linn. VI. 283. Poir. suppl. III. 732. Moore syn. XXVI. t. XIII. A. — Monogramme linearis Klf. Jahrb. d. pharmac. 1820. 44. enum. 196. Schott. gen. 18. Bojer. hort. Maurit. 407. Spr. syst. IV. 66. Fée gen. 98. t. IX. C. mém. III. 33. Hk. sp. V. 122. — Caenopteris graminea Schk.

Digitized by Google

t. 87. — Pteris Poir. enc. V. 708. — Pteris Monogramma Poit. Commers. — Grammitis pumila W. V. 141. Sw. syn. 214. 419.

Prom. bon. spei (Miller ex Hooker l. c.). — Ins. Mauritii (Lam. Desfont. in hb. W. 19588. Commerson. Sieber syn. f. 45. fl. maurit.). — Ins. Borboniae (Boivin 807. Vieillard). — Ins. Sechellae (Pervillé).

## 9. Vittaria Sm.

### Vittaria guineensis Dsv.

Dsv. Berl. Mag. V. 325. Fée mém. III. (Vittar.) 19. Hk. sp. V. 181. Vittaria plantaginea Spr. syst. IV. 67 pt. Pteris guineensis Dsv. Ann. Linn. VI. 293.

Africa occidentalis tropica. — Regnum Owariense (Beauvois in hb. W. 20028). — Ins. Fernando Po (Mann 124. 1366). — Sierra Leone (Barter). — Montes Cameroon (Mann).

### Vittaria isoëtifolia Bory.

Bory it. II. 325. Sw. syn. 109. W. V. 405. Poir. suppl. V. 489. Fée mém. III. 19. t. 2. f. 3. Spr. syst. IV. 67. Moore syn. ind. XXXIII. Hk. sp. V. 181. Ettingh. farn. 25. t. 17. f. 7. 20. — Vittaria angustifrons Bory voy. II. 324. — V. lineata Kze. Linn. 10. 527. Pappe et Raws. syn. f. cap. 38. — Vittaria longidentata C. Müller bot. zeit. 12. 546. Vittaria sarmentosa Fée mém. III. 17 pt. Hk. sp. V. 180. — Vittaria tenera Fée mém. III. 17. t. 2. f. 1. Hk. sp. V. 179. — Vittaria angustifolia Kze. pt. — Pteropsis angustifolia Pappe et Raws. syn. f. cap. 43.

Prom. bon. spei (Mundt et Maire, Ecklon et Zeyh. 35, Drège); prope Gnadenthal et Montagne Pass (Breutel). (Burchell cat. 5838). — Natalia (Krauss. Gueinzius). — Ins. Borboniae (Bory in hb. W. 20026. Boivin 853. Commerson, Gaudichaud, Pappe).

### Vittaria Owariensis Fée.

Fée mém. III. 21. t. 3. f. 2. Hk. sp. V. 183.

Africa occidentalis tropica. Regnum Owariense (Pal. Beauvois in hb. W. 20027. f. 2). Ad flumen Niger (Barter 1825).

### Vittaria plantaginea Bory.

Bory it. II. 325. Sw. syn. 110. W. V. 406. Poir. suppl. V. 489. Bory Dup. voy. 274. Fée mém. III. 22. t. 3. f. 7. Hk. sp. V. 185. Ettingh. farn. 24. t. 17. f. 21. — Vittaria incurvata Cav. prael. 1801. n. 672. — Vittaria ensiformis Sw. syn. 109. de Vittar. 134. t. 7. f. 1 pt. W. V. 406 pt. Poir. suppl. IV. 490. Schk. 94. t. 101 B. Bl. en. 198. Brack. expl. 60. quoad plant. Borbon.

Ins. Borboniae (Bory in hb. W. 20031. Boivin 852. 858. Pappe, D'Urville).

Digitized by Google

Vittaria revoluta W. hb.

Klf. enum. 193. Spr. syst. IV. 67. Fée mém. III. 19. Vittaria stricta Carm. in Linn. Transact. 12. 513. Hk. sp. V. 182. Pteris vittarioides Thouars fl. Trist. 31. t. 1.

Ins. Tristan d'Acunha (Thouars in hb. W. 20034. Carmichael).

Vittaria scolopendrina Mett. (non scolopendroides).

Mett. fil. h. Lips. 25. Thwaites Ceyl. 381. — Pteris Bory voy. II. 323. Sw. syn. 94. W. V. 356. Poir. suppl. IV. 620. Spr. syst. IV. 70. — Pteropsis Dsv. Ann. Linn. VI. 218. — Haplopteris Pr. t. 141. t. 5. f. 21. Hk. gen. t. 120 D. Moore syn. ind. XLI. t. 29 B. — Taeniopsis Beddom F. S. India 72. t. 212. — Taeniopteris Forbesii Hook. gen. t. 76 B. — Taeniopsis Moore ind. syn. XXXIII. — Vittaria Fée mém. III. 14. Hk. sp. V. 177. Mett. fil. h. Lips. 25. — Vittaria zeylanica Fée mem. III. 15. t. 1. f. 3. Hk. sp. V. 177. — Taeniopsis Moore syn. XXXIII. — Taeniopsis Richiana Brack. expl. 60.

Ins. Borboniae (Bory in hb. W. 19953. Boivin). — Ins. Sechellae (Pervillé 163). — Ager Mozambicensis (Forbes). — As. P.

var. latipes.

Vittaria latipes Fée mém. soc. sc. nat. Strasb. t. 16. p. 11. t. XXXI. f. 3.

Madagascaria (Boivin 1590).

Vittaria zosteraefolia Bory.

Bory it. I. 238. II. 324. W. V. 406. Poir. suppl. V. 490. Spr. syst. IV. 67. Boj. hort. Maurit. 403. Bory Dup. voy. 274. Fée mém. III. 20. t. 2. f. 2. Lowe f. II. t. 65 B. Kze. bot. zeit. IV. 444. Moore ind. syn. XXXIV. t. XXI. Mett. Ann. sc. nat. sér. IV. vol. XV. 59. Hk. sp. f. V. 183. — Vittaria elongata Sw. syn. 109. 302. quoad spec. Borbon. Wall. cat. 144 pt. Beddom F. S. Ind. 7. t. 21. Vittaria isoetifolia Sieb. Klf. en. 193. quoad patr. Borbon.

Ins. Mauritii (Bory, Sieber syn. f. 63. fl. mixt. 307. fl. maurit. 17. Bojer). — Ins. Borboniae (Bory in hb. W. 20029. Gaudichaud, Lesson). — Ins. Comorae; ins. Mayotte (Boivin); ins. Johannae (Speke). — As. P.

Vittariae spec.

Statu sterili.

Angola (Welwitsch. Iter angolense 13).

## 10. Antrophyum Klf.

Antrophyum Boryanum Klf.

Klf. en. 199. Spr. s. IV. 67. Hk. Grev. ic. t. 74. Wall. cat. 41. Boj. hort. Maurit. 398. Fée Antroph. 49. gen. 175.

Digitized by Google

Bory Dupp. voy. 255. t. 29. f. 1. J. Sm. Hk. j. bot. IV. 68. Moore syn. LVIII. ind. 79. Hk. sp. f. V. 172. Ettingh. farn. 26. t. 20. f. 22. — Hemionitis Boryana W. V. 128. Poir. suppl. III. 37. Pr. t. 221. t. 9. f. 19. — Hemionitis reticulata Bory it. I. 124. — Hemionitis gigantea Dsv. journ. bot. III. 2. Ann. Linn. VI. 216. — Hemionitis fellea Carm. msc.

Ins. Borboniae (Bory in hb. W. 19562. Gaudichaud. Boivin. Vieillard). — Ins. Mauritii (Sieber. syn. f. 64 pt. fl. mixt. 317. Bojer. Carmichael. Pappe). — Ins. Comorae; ins. Johannae (Kirk). — P.

Antrophyum giganteum Bory.

Bory Bél. crypt. 36. Fée Antr. 49. t. 5. f. 3. gen. 175. Moore syn. LVIII. ind. 80. Hk. sp. V. 174.

Ins. Borboniae (Bory. Boivin. 804). — Ins. Mauritii (Sieber syn. f. 64 pt.).

Antrophyum immersum Mett. msc.

Hemionitis Bory W. V. 221. Poir. suppl. III. 36. Dsv. Ann. Linn. VI. 216. Pr. t. 221. — Antrophyum pumilum Klf. en. 197. Spr. syst. IV. 67. Hk. Grev. ic. 46. Bory Dupp. voy. 254. Boj. hort. Maurit. 398. Fée mem. III. 45 pt. Gen. 175. Brack. expl. 64. Hk. sp. V. 170. Moore syn. LVIII. ind. 82. — Hemionitis Hookeriana Pr. t. 221. — Antrophyum Hookerianum Fée mém. III. 46. Kze. bot. zeit. VI. 199. — Antrophyum parvulum Kzė. bot. zeit. VI. 199. — Antrophyum obtusum Bl. fl. jav. 80. t. 34. f. 4. — Antrophyum nanum Fée mém. III. 44 pt.

Ins. Borboniae (Bory in hb. W. 19558). — Ins. Mauritii (Bojer, Carmichael, Boivin). — As.

Antrophyum Mannianum Hook.

Hk. sp. f. V. 173. ic. fil. cent. II. t. 73.

Ins. Fernando Po (Mann 364). — Montes Cameroon (Mann 1364) — Ad flumen Bagroo (Mann).

Antrophyum Meniscium Mett. hb.

Ins. Fernando Po (Mann 367). — Montes Cameroon (Mann 1310).

Antrophyum obtusum Klf.

Klf. enum. 199. Spr. syst. IV. 67. Bory Dupp. voy. 256. t. 29. f. 2. (sub. Antr. obtusato.) Fée Antr. 49. gen. 175. Moore ind. 81. — Hemionitis Bory msc. W. V. 127. Poir. suppl. III. 37. Dsv. Ann. Linn. VI. 216. Pr. t. 221.

Ins. Borboniae (Bory in hb. W. 19559. Boivin). — Madagascaria (ex Moore).

## 11. Platycerium Dsv.

Platycerium alcicorne Dsv.

Dsv. Ann. Linn. VI. 213. Bl. fl. jav. 46. Dcne. Nouv.

Digitized by Google

Ann. d. Mus. III. 345. Pr. t. 240. t. 10. f. 12. epim. 153. Brack. expl. 84. Mett. fil. h. Lips. 26. t. IV. f. 1—3. Hk. sp. V. 282. Lowe f. VII. t. 63. — Acrostichum alcicorne Willemet herb. Maurit. 61. Poir. suppl. I. 126. Sw. syn. 1·2. 196 (pt.) Schrad. journ. 1800. II. 11. W. V. 111. R. Br. prod. 145. Bl. enum. 103. Kze. bot. zeit. VI. 102. — Acrostichum bifurcatum Cav. dem. 241. n. 587. — Platycerium angustatum Dsv. Ann. Linn. VI. 213. — Neuroplatyceros alcicornis Fée Acrost. 102. — Alcicornium vulgare Gaud. Freyc. voy. 48. — Acrostichum Stemmaria Commers. msc. in hb. W.

Ins. Comorae; ins. Mayotte (Boivin 2846); ins. Johannae (Speke, Kirk). — Madagascaria (Commerson in hb. W. 19532). — Africa orient. trop. prope Mombas (Kersten. 6). — As. P. NH.

Platycerium Stemmaria Dsv.

Dsv. Ann. Linn. VI. 213. J. Smith. bot. Mag. 72. Misc. 3. Pr. epim. 154. Lowe f. VII. t. 62. Acrostichum Stemmaria Pal. Beauv. fl. d'Oware. 2. t. 2. — Acrost. alcicorne Schk. 1. t. 2. Sw. Schrad. journ. 1800. II. 11 pt. syn. 12. 196 pt. W. V. 111 pt. Neuroplatyceros aethiopicus Pluk. alm. 151. t. 429. f. 2. Fée Acrost. 103. t. 64. Gen. 63. — Platycerium aethiopicum Hk. Gard. f. t. 9. spec. V. 283.

Africa occidentalis. — Senegambia (Heudelot 746). — Sierra Leone (J. Smith). — Regnum Owariense (Beauvois in hb. W. 19531). — Ins. Fernando Po (Vogel 18. Mann 146? Barter 1741). Ins. Principis (Barter 1986). — Regiones aequatoriales (Curror). — Angola (Welwitsch. Iter angolense 160).

## 12. Taenitis Sw. Mett.

Taenitis angustifolia R. Br.

R. Br. prod. 154. Spr. IV. 42. Kze. flora 1839. I. 36. Linn. 9. 52. Hk. spec. V. 187. Griseb. fl. brit. Westind. 671. Ettingh. farn. 27. t. 17. f. 8—9; t. 18. f. 17. Omnia synonyma referenda sunt ad specimina locis americanis enata.

Ins. Mauritii (Thouars in hb. W. 20032). — Am. c. a.

Taenitis microphylla Mett. msc.

Lemmaphyllum Pr. ep. 263. — Pteris piloselloides Thbg. fl. jap. 331. Kaempf. ic. sel. pl. jap. t. 31. — Notholaena Klf. en. 133 pt. Kze. bot. zeit. 6. 506. — Drymoglossum subcordatum Fée mém. III. 29. gen. 94. t. 9 A. 1. — Drymoglossum carnosum Hk. journ. bot. IX. 358. Benth. fl. Hongk. 444. Fée gen. 94. — Drymoglossum mascarenhense Fée in hb. Moug. — Drymoglossum carnosum var. minor Hk. sp. V. 189.

Ins. Borboniae (Le Maire). — As.

Digitized by Google

Taenitis seminuda.

Blechnum seminudum Willd. Phyt. 13. t. 8. f. 3. Sw. Schrad. j. 1800. II. 10. — Grammitis W. sp. V. 140. Poir. suppl. II. 822. — Grammitis Iserti Sw. adnot. bot. 65. — Micropteris blechnoides Dsv. Ann. Linn. VI. 217. — Taenitis pumila Klf. en. 132. Spr. syst. IV. 42. — Pleurogramme Pr. t. 223. Fée mém. III. 38. — Pleurogramme graminifolia Fée gen. 101; mém. III. 37. t. 4. f. 8. — Monogramme graminifolia Hk. sp. V. 124 pt. — Monogramme furcata Hk. gen. t. 84 pt. t. 72 A. — Grammitis punctata Raddi fil. Bras. 11. t. 22 bis. f. 1. Polypodium Hk. sp. IV. 172.

Guinea (Isert in hb. W. 19587). — Am. a.

## 13. Gymnogramme Dsv.

Gymnogramme argentea Mett. msc.

Acrostichum Bory it. I. 321. — Hemionitis W. V. 132. Poir. suppl. III. 38. — Gymnogramme rosea Dsv. Berl. Mag. V. 306. Journ. bot. III. 27. Klf. en. 78. Spr. syst. IV. 39. Moore ind. syn. LXII. Ettingh. farn. 59. t. 37. f. 1. — Anogramme Fée gen. 184. — Gymnogramme Thiebautii Dsv. Ann. Linn. VI. 215. — Gymnogramme conspersa Kze. fil. I. 225. t. 92. Linn. 18. 116. Pappe et Raws. syn. f. cap. 41. Hk. spec. V. 147. — Anogramme Fée gen. 184. — Gymn. farinosa Boj. msc.

Natalia (Gueinzius). — Ins. Borboniae (Bory in hb. W. 19569. Boivin).

var. aurea Mett. msc.

Acrostichum aureum Bory it. I. 321. Hemionitis aurea W. V. 131. Poir. suppl. III. 38. Gymnogramme Dsv. Berl. Mag. V. 305. journ. bot. III. 27. Klf. en. 75.

Ins. Borboniae (Bory in hb. W. 19570. Boivin). — Madagascaria (Goudot).

Gymnogramme Ascensionis Hook.

Hk. sp. V. 137. — Grammitis Hk. ic. pl. t. 967. — Anogramme Fée msc.

Ins. Ascensionis (J. D. Hooker, Curror).

Gymnogramme Calomelanos Klf.

Klf. en. 76. Kze. Linn. IX, 85. XIII, 131. Mett. f. h. Lips. 41. Lowe f. I. t. 2. Brack. expl. 25. Hk. gen. t. 37. gard. f. t. 50. sp. V. 148. Griseb. fl. brit. Westind. 679. Mett. Ann. sc. nat. sér. V. II. 213. Ettingh. farn. 57. t. 34. f. 5; t. 36. f. 6; t. 38. f. 5. 6. 7. 14. Wawra Brasil. 207. Omnia synonyma referenda sunt ad specimina locis americanis enata.

Africa occidentalis tropica. — Ins. Fernando Po (Mann). — Ins. Principis (Barter). — Am. a. c.

Digitized by Google

Gymnogramme cheilanthoides Klf.

Klf. en. 71. Dsv. Ann. Linn. VI. 214. Hk. Grev. ic. t. 24. Hk. sp. V. 136. — Grammitis Sw. syn. 23. 219. 419. W. V. 143. Poir. suppl. II. 825. Carm. Linn. Transact. 12. 510. — Asplenium filipendulaefolium Pet. Thouars fl. Trist. d'Acunha 34. t. 4. — Gymnogramme Dsv. Berl. Mag. V. 304. Journ. bot. 1813. 25. Spr. syst. IV. 38. Moore ind. syn. LXII.

**Ins. Mauritii (ex Sw. l. c.). — Ins. Tristan d'Acunha (P. Thouars in hb. W. 19596. Carmichael).**

Gymnogramme cordata Schldl.

Schldl. adumbr. 16. Hk. Grev. ic. t. 156. Lk. h. Berol. II. 55. Hk. sp. V. 131. — Acrostichum cordatum Thbg. prod. 171. fl. cap. 732. — Asplenum Sw. Schrad. j. 1800. I. 54; 1803. II. 284. — Grammitis Sw. syn. 23. 217. W. V. 142. Poir. suppl. II. 824. — Notholaena Dsv. journ. bot. III. 92. — Cincinalis Dsv. Berl. Mag. V. 311. — Ceterach Klf. en. 140. Kze. Linn. 10. 497. Dsv. Ann. Linn. VI. 223. Pappe et Raws. syn. 24. Fée gen. 206. 363. t. 30. f. 3. — Gymnogramme capensis Spr. in Zeyh. plant. Cap. Klf. Linn. VI. 183. — Grammitis Moore ind. syn. LXIII. — Ceterach Kze. Linn. X. 496. Anal. Pter. 13. t. 8. f. 3. Fée gen. 206. 363. t. 30 A. f. 4. Mett. f. h. Lips. 80. Pappe et Raws. syn. f. cap. 23. Ettingh. farn. 153. t. 68. f. 6. — Ceterach crenata Klf. en. 85. Wes. d. farnkr. 87. — Gymnogramme Namaquensis Pappe et Raws. syn. 42. — Grammitis cordata var. subbipinnata Hook. ic. f. cent. II. t. 7.

**Prom. bon. spei (Sw. in hb. W. 19592. Lichtenstein, Drège, Krebs 356. Ecklon et Zeyher, Mundt et Maire). Flache Klipp (Bergius); in monte Bärenkopf (Mundt); in agro Namaquensi (Whitehead); prope Macalisberg (Burke). — Ins. St. Helenae (Burchell 187. 188. cat. hb. 6622. Alexander Haughton). — Angola (Welwitsch, iter angolense 90).**

Gymnogramme leptophylla Dsv.

Dsv. Berl. Mag. V. 305. journ. bot. 1813. 26. Klf. en. 81. Spr. syst. IV. 40. Kze. Linn. 24. 251. Hk. Grev. ic. t. 25. Hk. et Arn. brit. f. ed. 8. 580. Hk. brit. ferns. t. 1. spec. V. 136. Lowe f. I. t. 7. Newm. brit. f. 12. Moore et Lindl. f. nat. print. t. 43 B. Hk. fl. Tasm. II. 151. Hdb. fl. N. Zeal. 383. Pappe et Raws. syn. 42. Ettingh. farn. 56. t. 30. f. 8; t. 35. f. 4. Beddom F. S. Ind. 88. t. 270. Tchihatcheff fl. Asiae minoris II. 654. — Polypodium L. 7908. Schk. f. 26. t. 26. Lam. enc. V. 541. Sw. Schrad. j. 1800. II. 27. — Grammitis Sw. syn. 23. 218. t. 1. f. 6. W. V. 143. Poir. enc. suppl. II. 824. Desf. fl. atlant. II. 408. Munby cat. Alg. 35. — Hemionitis Lag. gen. et spec. 33. — Acrostichum

Digitized by Google

Dc. fl. franc. II. 565. Tchihatcheff fl. As. min. II. 653. — Asplenum Cav. Ann. Cienc. V. 13. t. 41. f. 3. — Osmunda Lam. enc. IV. 657. Anogramme Link. sp. 137. Fée gen. 184. t. 19 A. f. 1.

**Regio mediterranea africana. — Ins. Madeira. — Ins. Canarienses. — Ins. Caboverdicae; ins. St. Antonii (Bolle). — Prom. bon. spei. In monte diaboli (Mundt, Alexander). — Abyssinia, prope Adoa (Schimper); in monte Silke montium Simensium (Schimper). — E. As. NH. Am. c. a.**

## Gymnogramme Marantae Mett.

Mett. f. h. Lips. 43. — Acrostichum L. 7786. Sw. Schrad. j. 1800. II. 13. syn. 14. W. V. 121. Lam. enc. I. 37. Poir. suppl. I. 123. Sibth. fl. graec. t. 964. Haenke in Jacq. coll. II. 5. — Notholaena R. Br. prod. Dsv. journ. bot. III. 92. — Klf. en. 137. Link. h. Berol. II. 44. Koch. fl. germ. 985. Poir. suppl. IV. 110. Lowe f. I. 18 A. Spr. syst. IV. 43. Webb. spicil. gorgon. 194. Schmidt fl. Caboverd. 129. Moore ind. syn. LXX. Bolle zt. f. Erdk. 14. 318. Tchihatscheff fl. As. min. II. 653. Hk. sp. V. 120. Wawra Brasil. 207. Schweinf. Beitr. 220. — Cincinalis Dsv. Berl. Mag. V. 312. — Ceterach Dc. fl. franc. II. 567. — Polystichum Roth. tent. III. p. I. 92. — Vittaria Ceterach Bernh. Sehrad. journ. 1800. I. 315. — Acrostichum canariense W. sp. V. 121. — Notholaena Dsv. Ann. Linn. VI. 120. — Acrostichum subcordatum Cav. Ann. Cienc. IV. 97. Poir. suppl. I. 126. — Notholaena Dsv. Ann. Linn. VI. 110. — Acrostichum pulchrum L. ex Moore ind. 13.

**Ins. Madeira (Masson). — Ins. Canarienses; ins. Teneriffa (Broussonet in hb. W. 19544. Chamisso, Bourgeau 1560. aliique). — Ins. Caboverdicaė; ins. St. Nicolai (Bolle); ins. St. Antonii (Bolle). — Abyssinia. Montes Simenses prope Gessgessa (Schimper 995); prope Aman-Eski (Schimper); montes Mensa (Kretschmer). — E. As.**

## Gymnogramme serrulata Bl.

Bl. fl. jav. 96. t. 42. — Gymnogr. javanica Hk. spec. f. V. 145 partim. Reliqua synonyma referenda sunt ad specimina locis asiaticis s. sandvicensibus enata.

**Africa occidentalis tropica. — Ins. Fernando Po (Mann 664). — Ins. St. Thomae (Mann). — Montes Cameroon (Mann 1365. 2054). — As. P.**

## Gymnogramme vellea.

Acrostichum velleum Ait. hort. Kew. III. 457. Sw. Schrad. journ. 1800. II. 13. syn. 14. W. sp. V. 122. Sibth. fl. graec. t. 965. — Cincinalis Dsv. Berl. Mag. V. 312. — Notholaena R. Br. prod. 146; verm. Schr. IV. 73. Dsv. journ. bot. III. 92. Poir. suppl. IV. 110. Wickstr. act. Holm. 1825. Munby cat. Alg. 35. — Acrostichum lanuginosum Desf. fl. atlant. II. 400. t. 256. Schk. f. 186. t. 2. Poir. suppl. I. 123. Cav.

Digitized by Google

dem. 242. n. 593. Lag. Ann. Cienc. V. 139. Willd. Bemerk. 31. t. 3. f. 4. Bory. Ess. fort. 311. Lowe f. I. t. 16 A. — Notholaena Dsv. in Poir. suppl. IV. 110. Klf. en. 139. Lk. h. Berol. II. 44. Fée gen. 189. Spr. syst. IV. 43. Webb. et Berth. phyt. III. 455. Webb. spic. gorg. 194. Schmidt fl. caboverd. 130. Bolle zt. f. Erdk. 319. Hk. sp. f. V. 119. Wawra Brasil. 207. — Gymnogramme A. Br. Milde bot. Z. 15. 476. Mett. über. Cheil. 6. — Notholaena Plukenetii Fée gen. 159. t. 23. f. 4. 5. Pluk. alm. 150. t. 281. f. 4. — Acrostichum catanense Cosentini.

Montes Soturba Nubiae (Schweinfurth 581). — Montes Tarhôna prope Tripolin. — Algeria. — Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Bolle, Bourgeau 1541). — Ins. Caboverdicae; ins. St. Antonii (Schmidt). — E.

## 14. Adiantum L.

Adiantum aethiopicum L.

L. sp. 7943. Pluk. alm. t. 253. f. 2. Houtt. s. 13. I. 265. t. 100. f. 3. Lam. enc. I. 44. Thbg. prod. cap. 173. fl. cap. 736. Sw. Schrad. j. 1800. II. 84. syn. 125. W. V. 452. Poir. suppl. I. 138. Carm. Trans. Linn. Soc. 12. 513. Klf. en. 208. Spr. syst. IV. 114. Dsv. Ann. Linn. VI. 310. Pr. t. 158. Pappe et Raws. syn. f. cap. 33. Kze. Linn. 10. 529; 23. 215; 24. 273. bot. Z. VI. 541. Mett. f. h. Lips. 48. Hk. spec. II. 37. t. 77 A. Hk. fl. N. Zeal. II. 21. Hbd. fl. N. Zeal. 360. fl. Tasm. II. 137. Beddom F. S. Ind. 2. t. 5. Moore ind. 19; in Hk. j. bot. V. 225. Hk. f. j. Linn. soc. VII. 234. Ettingh. farn. 78. t. 41. f. 11. 17. t. 44. f. 6. — Omnia synonyma ad specimina locis australasicis enata referenda sunt.

Prom. bon. spei (Ecklon et Zeyher, Drège, Breutel, Burchell cat. 436. Novara Exped. 121. 122). — Natalia (Plant 322). — Montes Cameroon (Barter). — NH.

Adiantum altissimum Boj.

Bojer hort. Maurit. 405. (An Pteris pallens.?)

Ins. Mauritii.

Adiantum Capillus Veneris L.

L. sp. 7923. Cav. dem. 272. n. 677. Forst. comm. soc. Gött. IX. 73. Sw. Schrad. j. 1800. II. 83. syn. 124. W. V. 449. Lag. Ann. Cienc. V. 160. Desf. fl. atlant. II. 409. Bory Ess. Fort. 314. Willemet Hb. Maurit. 63. Noronha prod. phyt. 1. Bojer hort. Maurit. 404. Schmidt. fl. cabov. 130. Webb. spic. gorgon. 192. Bolle Bonpl. III. 121. VII. 104. zt. f. Erdk. 14. 292. Pappe et Raws syn. 32. Seubert

Digitized by Google

fl. Azor. 15. Munby cat. Alg. 35. Hk. sp. II. 36. Moore ind. 21. Ettingh. farn. 79. t. 44. f. 5. 7—11 etc. Adiantum africanum R. Br. verm. Schr. I. 287. Lowe Hk. journ. bot. I. 25. — Adiantum tenerum Lk. Buch. Canar. 360. Guill. Arch. I. 482. — Adiantum marginatum Schrad. gött. gel. Anz. 1818. 918. — Adiantum Pseudocapillus Fée gen. 118. mém. 8. 29. t. 12. f. 12. — Adiantum Capillus Veneris var. incisa Hk. spec. II. 36. t. 74 B. — Adiantum trifidum W. hb. Bolle Bonpl. III. 121. Fée gen. 114. — Adiantum repandum Tausch. — Adiantum maderense Lowe. — Adiantum Capillus Veneris v. flabelliformis Kze. in hb. Berol.

Regio mediterranea africana. — Regio Tripolitana et Tunetana, Algeria, Regnum Maroccanum. — Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Bory in hb. W. 20094. f. 5. 6). — Ins. Caboverdicae; ins. St. Nicolai (Forbes, Bolle), St. Vincentii (Bolle, Schmidt), St. Antonii (Schmidt, Bolle), Brava (Bolle), Santiago (Bocandé). — Angola (Welwitsch, iter angolense 71. 151. 200). — Prom. bon. spei (Ecklon et Zeyher, Krebs, Burchell cat. 4133). Ad sinum Algoa (Forbes), prope Gnadenthal (Breutel). — Ins. Mauritii (P. Thouars in hb. W. 20108. Sieber fl. maurit. 20. syn. fil. 176). — Ins. Borboniae (Bory in hb. W. 20094. f. 7. Boivin 833. Delessert, Perrottet). — Madagascaria. — Ins. Nossi-beh. — Prope urbem Tette ad flumen Zambeze (Peters), — Abyssinia (Schimper, Steudner). — In regione Sennar prope Khartum (Cienkowski). — Montes Soturba Nubiae (Schweinfurth 900). — Aegyptus; prope Kahiram (Ehrenberg). — E. As. P. Am. c. a.

## Adiantum caudatum L. sp. 7928.

var. hirsutum Mett. msc.

Adiantum hirsutum Bory it. I. 198. W. V. 432. Wall. cat. 2176. Klf. en. 201. Spr. syst. IV. 111. Bojer h. Maur. 404. Kze. Linn. 24. 273. bot. z. VI. 210. — Adiantum incisum Forsk. fl. aeg. arab. 122? — Ad. flagelliferum Wall. cat. 76. — Ad. proliferum Roxb. crypt. pl. 54. — Ad. Capillus Gorgonis Webb. spic. gorg. 192. Schmidt. fl. Caboverd. 130. — Ad. caudatum Bolle Bonpl. III. 122. Schweinfurth Beitr. 221. — Ad. caudatum v. fissa Fée gen. 114. — Ad. caudatum β. ciliatum Moore ind. 22. — Ad. neurodes Kze. in hb. reg. Berol.

Ins. Caboverdicae; ins. St. Nicolai (Forbes, Bolle), St. Vincentii (Vogel), St. Antonii (Schmidt). — Ad flumen Niger (Barter 1450). — Angola (Welwitsch, iter angolense 149). — Congo (Smith). — Ins. Borboniae (Bory in hb. W. 20105. Boivin 831). — Ins. Mauritii (Sieber syn. f. 152. fl. maur. 34. Bory). — Ins. Comorae; ins. Johannae (Peters); ins. Angasilia (Kersten 8). — Ins. Sechellae (Kersten 9). — Abyssinia; ad flumen Takazze (Schimper 1561). — In regione Bogos prope Keren (Steudner). — As.

## Adiantum cicutaefolium Noronha.

Noronha prod. phytol. in Aub. Thouars. Mél. et Voy.

Madagascaria.

Digitized by Google

Adiantum confine Fée.

Fée Mém. d. l'Acad. sc. nat. Strasb. vol. 16. p. 14. t. 32. f. 1. Ad. rhizophorum Sw. v. majus Hook. sp. f. II. 13. Moore ind. 37. — Ad. Boivini Godet Hb. — Ad. marginatum Boivin msc. in Hb. Lenormand.

Ins. Borboniae (Boivin 832. Ex Hb. Mus. Paris. comm.). — Ins. Mauritii (Ex Hb. Mus. Paris. comm.). — Ins. Comorae; ins. Mayotte (Boivin 2852). — Madagascaria (Boivin).

Adiantum cultrifolium Noronha.

Noronha prod. phyt. in Aub. Thouars. Mél. et Voy.

Madagascaria.

Adiantum emarginatum Bory.

Bory in W. V. 449. Poir. suppl. V. 535. Spr. syst. IV. 113. Pr. t. 158. Boj. hort. Maurit. 404. Fée gen. 114. Hk. sp. II. 39. t. 75 A. (an partim?) — Ad. Capillus Veneris β. emarginatum Dsv. Ann. Linn. VI. 310. Moore ind. 21.

Ins. Borboniae (Bory in hb. W. 20095. Néraud, Delessert, Perrottet). — Ins. Mauritii (ex Bojer l. c.). — As.

Adiantum fragile Boj.

Bojer Hort. Maurit. 405.

Ins. Mauritii.

Adiantum fruticosum Nor.

Noronha prod. phytol. ex Aub. Thouars. Mél. et Voy.

Madagascaria.

Adiantum fumarioides W.

W. V. 452. Spr. IV. 114. Poir. suppl. V. 535. Dsv. Ann. Linn. 310. Pr. t. 159. Boj. h. Maurit. 404. Hk. sp. II. 38. Moore ind. 27.

Ins. Borboniae (Flügge, Bory in hb. W. 20100).

Adiantum hispidulum Sw.

Sw. Schrad. j. 1800. II. 82. syn. 124. 321. W. V. 444. Poir. suppl. I. 137. R. Br. prod. 155. Dsv. Ann. Linn. VI. 311. Endl. prod. 14. Fée gen. 113. Kze. Linn. 23. 216. Brack. expl. 98. Mett. f. h. Lips. 47. Hk. sp. II. 31. fl. N. Zeal. II. 20. Moore ind. 28. Beddom F. S. Ind. 1. t. 3. Thwait. Ceyl. 387. Ettingh. farn. 84. t. 44. f. 1. 3. 16. Mett. Ann. sc. nat. sér. IV. 15. p. 60. — Adiantum pubescens Schk. f. 108. t. 116. W. V. 439. Bojer hort. Maur. 404. — Adiantum lobulatum Kze. bot. Z. IV. 445. Moore ind. 30. Ettingh. farn. 82. t. 47. f. 7. — Ad. striatum Sieber fil. exsicc. —

Digitized by Google

Reliqua synonyma referenda sunt ad specimina locis indicis et australasicis enata.

Ins. Borboniae (Carmichael, Gaudichaud, Richard 19, Lepervanche, Mezière, Boivin). — Ins. Mauritii (Telfair, Wallich, Thouars in hb. W. 20079, Sieber fl. maur. suppl. 19, Pappe). — Ins. Comorae; ins. Angasilia (Kersten 10).

## Adiantum lunulatum Burm.

Burm. fl. ind. 235. Rheede Hort. Malab. XII. 72. t. 40. Petiv. gaz. t. 54. f. 10. Sw. Schrad. j. 1800. II. 80. syn. 121. W. V. 430. phyt. XIV. t. 9. f. 1. Retz. obs. 2. t. 4. Lam. enc. I. 41. Poir. suppl. I. 134. Klf. en. 205. Spr. syst. IV. 110. Dsv. Ann. Linn. VI. 307. Pr. rel. Haenk. I. 62. tent. 158. Don. prod. 16. Fée gen. 114. Kz. bot. z. VI. 210. Hk. Grev. ic. t. 104. Wall. cat. 77. Bot. Herald. 233. 426. Hk. sp. II. 11. Brack. expl. 95. Lowe f. III. 121. Bolle Bonpl. III. 121. Moore syn. XXXVI. ind. 30. Benth. fl. Hongk. 446. Beddom F. S. Ind. 1. t. 1. Ettingh. farn. 85. t. 46. f. 6. 7. Thwait. Ceyl. 387. Mett. Ann. sc. nat. sér. V. t. II. 214. — Adiantum semicirculare Hochst. in pl. Schimp. — Reliqua synonyma referenda sunt ad specimina locis asiaticis, australasicis, americanis enata.

Ins. Caboverdicae (Miller); ins. St. Nicolai (Bolle). — Ad flumen Niger prope urbem Attah (Vogel). — Sierra Leone (Welwitsch. n. 5). — Madagascaria. — Ins. Nossi-beh ad Madagascariam (Boivin, Kersten 7). — Ins. Comorae; ins Johannae (Kirk). — Abyssinia: Ad flumen Takazze (Schimper); prope Tschelga (Steudner). — In regione Sennâr ad Gebel Fesoghlu (Hartmann). — Am. c. a. As. P.

## Adiantum Mettenii.

Ad. lunulatum Welw. msc.

Angola (Welwitsch, iter angolense 150).

## Adiantum ovatifolium Nor.

Noronha prod. phyt. ex Aub. Thouars. Mél. et Voy.

Madagascaria.

## Adiantum papyraceum Dsv.

Dsv. Ann. Soc. Linn. II. 307. Hk. sp. II. 54. Moore ind. 33.

Ins. Borboniae (Aspleni species statu sterili).

## Adiantum radicans Fée.

Fée gen. 114. 118. t. XXIX. f. 2. Moore ind. 36.

Ins. Borboniae (Pervillé).

## Adiantum reniforme L.

L. sp. 7921. Lam. enc. I. 40. ill. t. 870. f. 2. Sw. Schrad. j. 1800. II. 79. syn. 120 pt. Cav. dem. 271. n. 637. Bory Ess. Fort. 314. Schk. 107. t. 115. W. V. 427. Poir. suppl. I. 134. Spr. syst. IV. 110. Dsv. Ann. Linn. 306. Klf. enum.



Digitized by Google

199. Pr. t. 158. t. 6. f. 14. Hk. sp. II. 2. t. 71 A. Fil. exot. 8. Fée gen. 113. Lk. h. Berol. II. 12 pt. sp. 67. Brack. expl. 94. Mett. f. h. Lips. 47. Lowe f. III. t. 2. B. Bolle Bonplandia VII. 106. Moore ind. XXXVI. 36. Ettingh. farn. 78. t. 40. f. 12—14. Wawra. Brasil. 193.

Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Bory et Broussonet in hb. W. 20063, Guillemin, Chamisso, Höll, Bolle, Bourgeau 1543, alii).

var. asarifolia Moore ind. 36.

Adiantum asarifolium W. V. 427. Dsv. Ann. Linn. VI. 306. Bory. Bél. Crypt. II. 27. Boj. hort. Maurit. 403. Hk. sp. f. II. 2. t. 71 B. Fil. exot. 11. Fée gen. 113. — Ad. reniforme Bory. voy. I. 358. Sw. syn. 120 pt. Lk. h. Berol. II. 12 pt. Wall. cat. 80. — Adiantum orientale Bory in hb. W.

Ins. Borboniae (Bory in hb. W. 20064, Commerson, Lepervanche, Mézière, Boivin). — Ins. Mauritii (Sieber syn. f. 177). — Senegambia (Hb. Hawn)?

Adiantum rhizophorum Sw.

Sw. syn. 122. 320. W. V. 433. Poir. suppl. I. 135. Spr. syst. IV. 111. Dsv. Ann. Linn. VI. 307 pt. Wall. cat. 82. Pr. t. 158. Kze. bot. z. VI. 210. Fée gen. 114. Moore ind. 36. Thwaites Ceyl. pl. 387. Boj. hort. Maurit. 404. — Ad. caudatum Bory it. I. 198. — Ad. decipiens. Dsv. Ann. Linn. VI. 307 pt. Hk. sp. II. 53. — Ad. rotundatum Kze. Linn. 10. 528. Hk. sp. II. 53. Pappe et Ravs. syn. 52. Moore ind. 37.

Prom. bon. spei. — Ins. Borboniae (Bory in hb. W. 20073, Lepervanche, Boivin 832, Pappe, Vieillard). — Ins. Mauritii (Commerson, Sieber s. f. 61, fl. mixt. 300, Carmichael, Bojer, Bouton, Gardner, Andersson). — Madagascaria (Bojer). — Ins. Nossi-beh (Boivin). — Ins. Sechellae (Pervillé 212). — As.

Adiantum tetraphyllum W.

W. sp. V. 441. Schld. Linn. V. 615. Kl. Linn. 18. 551. Kze. Linn. 21. 221; 23. 217. Splitg. Tijdsch. Nat. VII. 426. Mett. f. h. Lips. 47. Ann. sc. nat. sér. V. t. II. 214.

var. obtusa Mett. msc.

Ad. prionophyllum var. Hk. sp. II. 22. — Ad. prionophyllum $\gamma$. curtum Moore ind. 35 pt. — Ad. nitidum Hornem. msc. — Ad. serrulatum Hornem. msc. — Ad. Vogelii Mett. msc.

Ins. Fernando Po (Vogel, Barter 1458, Mann 141). — Congo, Banza (Smith).

Adiantum thalictroides W. hb.

Schldl. adumbr. 53. t. 33. ined. Kz. Linn. 10. 530. bot. z. III. 286. Pr. t. 159. Fée gen. 114. Pappe et Raws. syn. 52. Schweinfurth beitr. 221. — Adiantum crenatum Poir. enc. suppl. I. 137. — Ad. Poiretii Wickstr. Act. Holm. (1825) 443. Moore ind. 34. — Ad. Aubertii Dsv. Ann. Linn. VI. 310. — Ad. aethiopicum Aub. Thouars fl. Trist. d'Acunha

Digitized by Google

34. Hk. sp. II. 37 pt. Moore ind. 19 pt. — Ad. cycloides Zenk. pl. ind. fasc. II. 11. t. 11. — Ad. Capillus Veneris v. latissimum Kze. Linn. 24. 273. Moore ind. 21.

**Ins. Tristan d'Acunha (Thouars, Carmichael). — Prom. bon. spei (Vieweg in hb. W. 20102, Bergius, Krebs 377, Mundt et Maire, Ecklon et Zeyher, Lalande. Ad sinum Simonis (Novara Exped. 120). — Ins. Mauritii (Thouars in hb. W. 20101). — Ins. Borboniae (Boivin 867). — Madagascaria (Lyall Hb. Lenormand). — Abyssinia; in monte Scholoda (Schimper 19). Montes Simenses (Schimper (1257). Montes Simenses prope Abbena (Steudner). — As. Am. a.**

## 15. Lindsaya Dry. Mett.

### Lindsaya Boivini Mett. hb.

**Ins. Comorae; ins Mayotte (Boivin 2882).**

### Lindsaya chinensis Mett. msc.

Trichomanes L. sp. 7952. Thbg. fl. jap. 340. Retz. obs. VI. 40. Poir. enc. VIII. 30. — Adiantum Burm. fl. ind. 236. Pluk. Alm. t. 4. f. 1. — Davallia J. Sm. Act. Taurin. V. 414. Rees Cycl. 11. Sw. Schrad. j. 1800. II. 88. syn. 133. W. V. 474. Langsd. Fisch. ic. f. 23. t. 27. Spr. syst. IV. 119. Hk. sp. I. 187. Kze. bot. z. VI. 553. Davallia tenuifolia Sw. Schrad. journ. 1800. II. 88. syn. 133. 350. W. V. 477. Boj. hort. Maur. 408. Pr. t. 129. t. 4. f. 27. Bl. en. 186. Hk. sp. I. 186. Kz. bot. z. VI. 553. VIII. 190. Linn. 24. 276. Bory. Dupp. voy. 278. Brack. expl. 248. Lowe f. VIII. t. 14. Thwait. Ceyl. 389. Beddom. F. S. Ind. 6. t. 16. Benth. fl. Hongkong. 462. (pt.) — Adiantum Poir. suppl. I. 145. V. 342. — Odontosoria J. Sm. Bot. Herald. 429. — Microlepia Mett. f. h. Lips. 104. t. 27. f. 14. Ettingh. farn. 208. t. 136. f. 8—10; t. 137. f. 2, 5—8. — Lindsaya Mett. Ann. sc. nat. sér. IV. t. 15. 64. — Reliqua synonyma referenda sunt ad specimina locis asiaticis et australasicis enata.

**Ins. Borboniae (Boivin 896. 897. Richard 4). — Ins. Mauritii (Wallich cat. 245. Sieber syn. f. 55. fl. mixt. 302, D'Urville, Bernier 12). — Madagascaria (Bojer, Lyall, Boivin). — Ins. Comorae; ins. Mayotte (Boivin 2881). — As. P.**

### Lindsaya cuneata Willd.

W. sp. V. 423. Hk. sp. I. 211. Spr. syst. IV. 79. Boj. hort. Maurit. 403. Kze. bot. Z. VIII. 327. L. heterophylla Bory msc.

**Ins. Borboniae (Bory in hb. W. 20059).**

### Lindsaya ensifolia Sw.

Sw. Schrad. j. 1800. II. 77. syn. 118. 317. W. V. 420. Hk. et Grev. ic. t. 111. Poir. suppl. III. 447. J. Sm. in Rees Cycl. 21. Gaud. Freyc. t. 62. Klf. enum. 219. Spr. syst. IV. 79. Hk. sp. I. 220. Kze. Linn. 18. 121. bot. z. VIII. 402.



Digitized by Google

Pappe et Raws. s. fil. cap. 25. Thwait. Ceyl. 388. Ettingh. farn. 213. t. 145. f. 3; t. 146. f. 7. Benth. fl. Hongk. 446. — Schizoloma J. Sm. in Hk. journ. bot. III. 414. Bot. Herald. 429. Moore ind. syn. XXXV. Beddom. F. S. Ind. 9. t. 25. — Pteris stricta Poir. enc. V. 713. Sw. s. 96. W. V. 370. — Reliqua synonyma referenda sunt ad specimina locis asiaticis s. australasicis enata.

**Africa occidentalis tropica. – Prom. bon. spei. — Natalia (Gueinzius 57). — Ins. Borboniae (Commerson). — Ins. Mauritii (Lam. in hb. W. 19951). — Madagascaria (Chapelier). — Ins. Nossi-beh ad Madagascariam (Boivin). — As. P. NH.**

## Lindsaya ferruginea.

Davallia ferruginea Dsv. Ann. Linn. VI. 315. (non Cav.) Odontosoria thalictroides Pr. t. 129. — Lindsaya mitis Mett. msc.

**Madagascaria (Chapelier, Goudot). — Ins. Borboniae (Hb. Lenormand).**

## Lindsaya Goudotiana Mett. msc.

Davallia Kze. Anal. Pter. 35. t. 22. f. 2. Hk. sp. I. 188. ic. fil. cent. II. 23. — Stenoloma? Fée gen. 330. — Odontoloma Mett. f. h. Lips. 104. — Acrophorus Moore ind. 2. — Davallia emirnensis Hk. msc. — Davallia Goudotiana α. Hk. sp. I. 188. t. 50. c. — Acrophorus Goudotianus β. emirnensis Moore ind. 2.

**Madagascaria (Goudot, Lyall).**

## Lindsaya lanuginosa Wall.

Wall. cat. 154. Hk. sp. I. 210. t. 69. B. — Isoloma J. Sm. Hk. gen. 102. Brack. expl. 215. — Lindsaya acutifolia Dsv. Ann. Linn. VI. 312. Hk. sp. fil. I. 209. Kze. bot. Z. VIII. 327.

**Ins. Borboniae et Mauritii. — As. P.**

## Lindsaya Pervillei Mett. msc.

Cf. pag. 17. — L. Kirkii Hk. msc.

**Ins. Sechellae (Pervillé 147. Kersten 11), ins. Mahé (Peregrinator ignotus in hb. Berol.).**

## Lindsaya repens Kz. hb.

Dicksonia repens Bory. it. II. 323. Sw. syn. 138. W. V. 482. Poir. suppl. II. 472. — Davallia Dsv. Ann. Linn. VI. 314. — Davallia Boryana Pr. rel. Haenk. I. 66. Spr. syst. 119. Boj. hort. Maurit. 408. Hk. Grev. ic. t. 143. Hk. sp. I. 175. Kze. bot. z. IV. 459. VI. 216. VIII. 118. — Odontoloma J. Sm. Hk. j. bot. III. 415. Lond. j. bot. I. 424. Fée gen. 329. t. 26 A. f. 2. Mett. f. h. Lips. 104. Brack. expl. 225. — Acrophorus repens Moore syn. XCL. ind. 3. Beddom. F. S. Ind. 72. t. 209. — Acroph. repens β. incisus Dsv. Ann.

Digitized by Google

Linn. VI. 314. Moore ind. 4. — Saccoloma Boryanum Pr. t. 126. t. 4. f. 20. — Davallia Hk. sp. I. 175. — Odontoloma Hk. gen. t. 114 B. — Reliqua synonyma referenda sunt ad specimina locis asiaticis s. australasicis enata.

**Ins. Borboniae (Bory in hb. W. 20162). — Ins. Mauritii (Thouars, Néraud, Telfair, Wallich). — As. P.**

## 16. Cheilanthes Sw.

Cheilanthes auriculata Lk.

Lk. Hort. Berol. II. 36. sp. 62. Kze. Linn. 10. 531; 23. 242. Mett. f. h. Lips. 51. t. 16. f. 9. Cheil. n. 68. Moore ind. 235. — Pteris Sw. Schrad. j. 1800. II. 69. syn. 103. W. V. 365. Schldl. ad. 41. t. 23. Spr. syst. IV. 71. Hk. Grev. ic. 116. — Adiantum Thbg. prod. 173. fl. cap. 736. R. Br. prod. 173. — Allosorus Pr. t. 153. Pappe et Raws. syn. 31. — Cassebeera J. Sm. bot. Mag. 72. Misc. 20. — Pellaea Fée gen. 129. Hk. sp. II. 140. — Pteris confluens Thbg. prod. 173. fl. cap. 733. Sw. syn. 107. Schrad. j. 1800. II. 70. W. V. 382. Poir. suppl. IV. 69. Dsv. Ann. Linn. VI. 297. — Adiantum hastatum Thbg. in hb. Klf.

**Prom. bon. spei (Swartz in hb. W. 19968. Sieber syn. f. 8. Bergius, Forbes, Ecklon et Zeyher). — Natalia (Krauss).**

Cheilanthes Bergiana Schldl.

Schldl. adumbr. 51. t. 31. ined. Kz. Linn. 10. 541. Pappe et Raws. syn. f. cap. 34. Mett. Cheil. n. 53. Ettingh. farn. 65. t. 47. f. 12. 13. Hypolepis Hk. sp. II. 67. Moore ind. 235. — Cheilanthes elata Kz. Linn. 10. 542. Pappe et Raws. syn. f. cap. 34. — Hypolepis Pr. Hk. sp. f. II. 67.

**Prom. bon. spei (Bergius, Krebs 375. Ecklon et Zeyher), prope Koratra (Drège). (Burchell cat. 5218. 5417). — Natalia.**

Cheilanthes Boivini Mett. msc.

Rhizoma abbreviatum, repens, paleis discoloribus, nigricantibus, margine ferrugineis, lanceolatis, acuminatis vestitum; folia membranacea, siccitate alutacea, supra et margine pilis articulatis puberula, infra glabra; petiolus 1—2″ longus, castaneus, nitidus, infra laevis, supra cum rhachi pilis articulatis hirsutus; lamina ad 2″ longa cordato-ovato-oblonga, obtusa, pinnatipartita vel basi pinnatisecta; laciniae 3—4, oblongae, obtusae, basi inferiore decurrente coadunatae, lobatae vel pinnatifidae, infimae deorsum vel utrinque solutae, maximae, inaequaliter ovato-oblongae, obtusissimae, margine superiore lobulatae, deorsum pinnatifidae; lobulis obtusissimis, semicordatis, basalibus lateris inferioris semioblongis, sterilibus integerrimis; nervi repetito-furcati, steri-

Digitized by Google

les intra marginem integerrimum desinentes, fertiles ad sinus crenarum soriferi, omnes summis exceptis soriferi; sori contigui, lobuli reflexi, ampli, membranacei, pallidi, integerrimi. (Mett. msc.)

Ins. Comorae; ins. Nossi-beh ad Madagascariam (Boivin).

Cheilanthes capensis Sw.

Sw. syn. 128. W. V. 459. Spr. syst. IV. 117. Dsv. Ann. Linn. VI. 304. Schldl. ad. 48. t. 28. Pr. t. 160. t. 6. f. 16. J. Sm. Hk. j. bot. IV. 159. Mett. f. h. Lips. 52. Cheil. n. 75. Pappe et Raws. syn. 33. Lowe tom. IX. t. 26 A. Ettingh. farn. 64. t. 48. f. 12. — Adiantum Thbg. prod. 173. fl. cap. 736. Sw. Schrad. j. 1800. II. 85. Kz. Linn. 10. 530. Poir. enc. suppl. I. 143. — Hypolepis Hk. sp. II. 72. t. 77 C. — Adiantopsis Fée gen. 145. mém. VIII. 115. Moore syn. XXXVII. ind. 17. — Allosorus Bernh. — Cheilanthes praetexta Klf. en. 212. Spr. syst. IV. 116. — Adiantum marginatum Schrad. Gött. gel. Anz. 1818. 918.

Prom. bon. spei (Thunberg, Drège, Ecklon et Zeyher); prope Rondebosch (Bergius); ad sinum Algoa (Forbes). Expedit. Novara. 119. 135.

Cheilanthes contracta Mett. msc.

Cheilanthes hirta α contracta Kze. Linn. 10. 539. — Myriopteris contracta Fée gen. 149.

Prom. bon. spei (Drège, Ecklon); in monte Tafelberg (Bergius), Kattrivier (Breutel). Expedit. Novara 141.

Cheilanthes coriacea Dcne.

Dcne. Arch. d. Mus. II. 190. Hk. sp. II. 109. Mett. Cheil. n. 82[a]. Moore ind. 237. Kotschy pl. Binderian. 20. — Cheilanthes arabica Dcne. Arch. d. Mus. II. 190. Buchinger. bot. z. I. 303. Kze. Linn. 23. 242. 307. Mett. Cheil. 82. Moore syn. XXXVIII. ind. 234. — Cheilanthes Decaisnii Kze. Linn. 23. 307. — Pellaea abyssinica Pritzel icon. bot. 820. Pellaea arabica Fée gen. 130. iconogr. nouv. 4. t. 3. f. 1.

Abyssinia, prope Djeladjeranne (Schimper 1431). — In regione Schohos (Steudner, Hansal). — As.

Cheilanthes cornuta Kze.

Kze. Linn. 10. 534 pt. Fée gen. 156. Mett. Cheil. n. 33. Hk. sp. II. 109 pt. Pappe et Raws. syn. 36 pt. Moore ind. 237 pt.

Prom. bon. spei (Ecklon et Zeyher 67. 2).

Cheilanthes deltoidea Kze.

Kze. Linn. 10. 535. Fée gen. 156. Hk. spec. II. 106. 147. Mett. Cheil. n. 34. Pappe et Raws. syn. f. 36. Moore ind. 238. — Allosorus robustus Kze. Linn. 10. 502. fil. II. 7. t. 104. f. 1. Moore ind. 45. — Pellaea Hk. sp. II. 147. —

Digitized by Google

Onychium Fée gen. 132. mém. VIII. 115. — Cryptogramma robustum Pappe et Rawson syn. f. 32.

Prom. bon. spei; in terra Namaquensi prope Zilverfontein et Goedemanskraal (Drège). (Burchell cat. 2033).

## Cheilanthes distans Mett.

var. profusa Mett. Cheil. n. 19.

Cheilanthes profusa Kze. fil. I. 33. t. 17 pt. Linn. 10. 535; 18. 245. 535. Hk. sp. II. 108. Mett. f. h. Lips. 51. Pappe et Raws. syn. 36. Moore ind. 251. — Notholaena Pr. t. 224. — Notholaena pumila Link. sp. 146.

Prom. bon. spei. Terra Namaquensis (Drège).

## Cheilanthes Eckloniana Mett.

Mett. Cheil. n. 10. — Notholaena Kze. Linn. 10. 501. Lk. sp. f. 146. Fée gen. 159. J. Sm. cat. Kew. f. 3. Cat. f. 28. Mett. f. h. Lips. 45. Lowe f. I. t. 17 A. Moore syn. LXX. ind. 238. Pappe et Raws. syn. 42. Hk. sp. V. 116. — Notholaena Marantae Klf. Linn. VI. 184. — Notholaena Krebsiana Pr. t. 224.

Prom. bon. spei (Krebs 372): prope Clanvillam (Ecklon et Zeyher); Griqualand (Moffat); Namaqualand (Drège); prope Macalisberg (Burke).

## Cheilanthes farinosa Klf.

Klf. enum. 213. Hk. Grev. ic. 134. Kz. Linn. 24. 274. Spr. syst. IV. 117. Hk. sp. II. 77. Bot. Mag. t. 4765. Lowe f. IV. t. 13. Mett. Cheil. n. 71. Moore syn. XXXVIII. ind. 239. t. 26. f. 1—5. Ettingh. farn. 65. t. 48. f. 2. 5. 6. Thwaites Ceyl. 387. Beddom. F. S. Ind. 65. t. 191. Hk. f. in. journ. Linn. soc. VII. 236. Schweinf. Beitr. 221. Mett. Ann. sc. nat. sér. V. II. 219. Kotschy pl. Binderian. 20. — Pteris farinosa Forsk. fl. aeg. arab. 187. Lam. enc. V. 178. Vahl. symb. III. 103. t. 75. Sw. Schrad. journ. 1800. II. 69. syn. 105. W. V. 397. — Cassebeera J. Sm. bot. Misc. 72. 20. — Pteris argyrophylla Sw. syn. 105. W. V. 361. Poir. enc. suppl. IV. 601. — Allosorus Pr. t. 153. — Aleuritopteris Fée gen. 154. mém. VIII. 117. — Pteris argentea Bory. voy. I. 327. — Reliqua synonyma referenda sunt ad specimina locis asiaticis s. americanis enata.

Montes Cameroon (Mann 1372. 2064). — Angola (Welwitsch; iter angolense 201). — Ins. Borboniae (Bory in hb. W. 19964. Boivin 824). — Ins. Comorae. — Abyssinia, prope Ser-Acaba (Schimper 1123); prope Debra-Eski (Schimper 240); prope Aman-Eski (Schimper 752); ad Huv-Ataba (Steudner); prope Woechni (Steudner); in regione Bogos (Steudner). — As. Am. c.

## Cheilanthes fragrans Mett.

Mett. Cheil. n. 48. Moore ind. 241. — Polypodium L. mant. 2. 307. Desf. fl. Atl. II. 408. t. 257. — Cheilanthes odora

Digitized by Google

Sw. syn. 127. Munby Cat. 35. Tchihatcheff. fl. As. min. II. 654. — Cheilanthes maderensis Lowe in Hk. journ. I. 26. nov. fl. mad. 528. Mett. Cheil. 49. t. 3. f. 23. 24. — Bolle Ztsch. f. Erdk. 14. 315. — Cheilanthes fragrans Webb. et Berth. phyt. can. III. 452. Hk. sp. f. II. 81 pt. — Cheilanthes suaveolens Bory in hb. Kz. — Cheil. microphylla Buch. Allg. Uebers. 360. — Polypodium pteryoides Bory Ess. Fort. 311. — Reliqua synonyma referenda sunt ad specimina locis europaeis enata.

Ins. Madeira. — Ins. Canarienses. — Algeria (Desf. in hb. W. 20112); prope Oran (Reuter); prope Djelfa (Tchihat. l. c.). — As. E.

## Cheilanthes glandulosa Pappe et Rawson.

Pappe et Rawson syn. f. cap. 35. — Cheilanthes hirta Sw. γ. Moore ind. 243.

Prom. bon. spei (Moffat).

## Cheilanthes hirta Sw.

Sw. syn. 128. 329. W. V. 458. Spr. syst. IV. 117. Dsv. Ann. Linn. VI. 304. Lk. hort. Berol. II. 42. spec. 156. Kze. Linn. 10. 539; 23. 244. Pr. t. 160. Hk. sp. II. 92. t. 101 B. f. 1—3. Schldl. ad. 50. t. 30. Mett. f. h. Lips. 50. Lowe f. IV. t. 18. Mett. Cheil. n. 26. Fée gen. 156. Pappe et Raws. syn. f. 35. Moore syn. XXXVIII. ind. 243. Ettingh. farn. 63. t. 47. f. 1—3. — Adiantum Poir. suppl. I. 142. — Adiantum caffrorum Sw. Schrad. journ. 1800. II. 85. — Allosorus Bernh.

Prom. bon. spei (Zeyher 836. 839. 1880. Bergius, Drège, Burke, Krauss 747. Breutel); prope Uitenhaag (Ecklon et Zeyher).

β. intermedia Kze. l. c.

Myriopteris intermedia Fée gen. 149.

Prom. bon. spei (Drège, Ecklon et Zeyher, Krebs 371); in monte Tafelberg (Bergius).

γ. laxa Kze.

Kze. Linn. 10. 548. Moore ind. 243. — Cheilanthes hirta β. Hk. sp. II. 92. t. 101 B. f. 4. — Cheilanthes olivacea Fée gen. 156. — Notholaena capensis Spr. syst. suppl. 32.

Prom. bon. spei (Drège); in monte Hangklipp (Mundt et Maire). — Natalia (Gueinzius).

δ. parviloba Kze.

Kze. Linn. 10. 541. Hk. sp. f. II. 92. Moore ind. 243. — Cheilanthes parviloba Sw. 128. 331. W. V. 549. Dsv. Ann. Linn. VI. 304. Spr. syst. IV. 116. Pr. t. 160. Fée gen. 156. — Adiantum parvilobum Sw. Schrad. j. 1800. II. 85. Poir. suppl. I. 143. — Allosorus parvilobus Bernh.

Digitized by Google

**Prom. bon. spei (Drège, Ecklon et Zeyher, Krauss 745). — Ad Oliphants-rivier (Mundt et Maire). (Krebs 369).**

## Cheilanthes inaequalis Mett.

Mett. Cheil. n. 15. t. III. f. 4. Moore ind. 243. — Notholaena Kze. fil. I. 146. t. 54. f. 1. Linn. 20. 2; 23. 270. Pappe et Raws. syn. 43. Hk. sp. V. 118.

**Prom. bon. spei (Zeyher); prope Macalisberg (Burke). — Angola (Welwitsch, iter angolense 147. 197).**

## Cheilanthes induta Kze.

Kze. Linn. 10. 538. Hk. sp. II. 92. t. 102 A. Mett. Cheil. n. 51. Pappe et Rawson syn. f. cap. 36. Moore ind. 244. — Myriopteris Fée gen. 149. t. 12 A. f. 3.

**Prom. bon. spei; in Sneeuwbergen (Drège).**

## Cheilanthes Kunzei Mett.

Mett. Cheil. p. 71. n. 22. t. 3. f. 6. 7. Moore ind. 244. — Cheilanthes profusa Kze. var. minor. Kze. Linn. 10. 536; fil. I. 33. t. 17 C.

**Prom. bon. spei; prope Zilverfontein in terra Namaquensi (Drège).**

## Cheilanthes lutea Moore.

Moore ind. 246. — Pteris lutea Cav. prael. (1801.) 660. Sw. syn. 104. W. V. 383. Poir. suppl. IV. 604. Dsv. Ann. Linn. VI. 297. Spr. syst. IV. 74. Liebm. Mex. Bregn. 72. Mett. Cheil. n. 4. 6.

**Angola (Welwitsch, iter angolense 148. 198). — Am. c.**

## Cheilanthes multifida Sw.

Sw. syn. 129. 334. W. V. 459. Spr. syst. IV. 305. Dsv. Ann. Linn. VI. 305. Schldl. ad. 49. t. 29. Bl. en. 157. Gaud. Freyc. 405. Bory Dupp. 276. Pr. t. 160. Kze. Linn. 10. 537; 23. 244. Fée gen. 156. Hk. spec. 90. t. 100 B. Gard. f. 39. Lowe f. IV. t. 26. Mett. f. h. Lips. 52. Cheil. n. 51. t. III. f. 20. 21. Pappe et Raws. syn. 33. Moore ind. 248. — Adiantum Sw. Schrad. j. 1800. II. 85. Poir. enc. suppl. I. 143. — Allosorus Bernh. — Adiantum globatum Poir. suppl. I. 144. — Cheilanthes capensis Eckl. un. it. 168. — Lonchitis caffrorum Sw. Schrad. j. 1803. II. 292. — ? Cheilanthes tenuifolia Roxb. St. Helen. pl. 303. Pritch. cat. 10.

**Ins. St. Helenae (Bennett, Tilesius). — Prom. bon. spei (Meuron in hb. W. 20124. Krebs n. 370. Zeyher 880. Ecklon 168. Gaudichaud). Burchell. Cat. 5095. — Natalia (Krauss 383). — Ad flumen Zambeze (Kirk).**

## Cheilanthes persica Mett. msc.

Notholaena persica Bory Bél. Crypt. (1831.) 23. — Cheilan-

Digitized by Google

thes Szovitsii Fisch. et Mey. bull. d. l. soc. d. Mosc. vol. VI. (1833.) 260. (nomen solum.) Hohenack. bull. soc. Mosc. 1838. 241 (diagn.) Rupr. Beitr. III. 48. Ledeb. fl. ross. IV. 526. Hk. sp. II. 98. t. 94 B. Tchihatcheff. fl. As. min. IV. 654. — Cheilanthes fimbriata Vis. fl. dalm. I. 42. t. 1. f. 1. Kze. bot. z. II. 277. — Acrostichum microphyllum Bert. misc. bot. XVIII. 19. t. 14. fl. it. crypt. I. 35. — Notholaena microph. Bolle Sitzber. gesellsch. naturf. fr. zu Berlin. Vossische zeit. 1858. 25. Apr. beibl. 2. p. 4. — Oeosporangium Szovitsii Vis. Atti d. Instit. Venet. vol. 12. ser. III. 1.

Algeria (Hb. Lenormand). — As. E.

Cheilanthes polymorpha Poir.

Poir. suppl. I. 142. Dsv. Ann. Linn. VI. 305. Mett. Cheil. n. 86. Moore ind. 250. — Adiantum Poir. l. c.

Madagascaria. — Ins. Borboniae.

Cheilanthes pteroides Sw.

Sw. syn. 128. W. V. 455. Spr. syst. IV. 115. Dsv. Ann. Linn. 303. Klf. en. 213. Schldl. ad. 54. Bl. en. 136. Kze. Linn. 10. 536; 23. 245. J. Sm. Hk. j. bot. IV. 159. Hk. sp. f. II. 80. t. 101 A. Lowe f. IV. t. 21. Mett. f. h. Lips. 52. t. 16. f. 10. Cheil. n. 54. t. III. f. 25. 26. Pappe et Raws. 33. Ettingh. farn. 62. t. 50. f. 7. 11; t. 51. f. 18. — Adiantum L. sp. 7942. Thbg. prod. 173. fl. cap. 736. Lam. enc. I. 44. Sw. Schrad. j. 1800. II. 85. Poir. suppl. I. 143. Gaud. Freyc. 405. Cassebeera Pr. t. 155. t. 6. f. 7. J. Sm. bot. Mag. 1846. comp. 20. — Adiantopsis Fée mém. VIII. 115. Moore syn. XXXVII. ind. 18. — Pteris orbiculata Houtt. syst. 13 pt. 120. t. 96. f. 3.

Prom. bon. spei (Vieweg et Lichtenstein in hb. W. 20109). (Meuron, Forbes, Sieber syn. f. 8. Ecklon et Zeyher. Novara-Exp. 137); in monte tabulari (Bergius). — Natalia (Gueinzius). — Africa orientalis tropica; prope Mombas (Kersten 12).

Cheilanthes pulchella Bory.

W. V. 456. Spr. syst. IV. 116. Dsv. Ann. Linn. VI. 303. Hk. sp. II. 109. t. 94 A. Webb. et Berth. phyt. can. 453. t. 252. Mett. Cheil. n. 83. Moore ind. 251. Bolle Ztsch. f. Erdk. 14. 313. — Allosorus pulchellus Pr. t. 152. — Blechnum canariense Broussonet hb. — Cheilanthes guanchica Bolle Bonpl. VII. 107. Ztsch. f. Erdk. 14. 314. Milde bot. z. 24. 139.

Ins. Canarienses (Bory et Broussonet in hb. W. 20117. Bolle. Bourgeau 172. 1551 aliique).

Cheilanthes quadripinnata.

Pteris quadripinnata Forsk. fl. aeg. arab. 186. Sw. Schrad. j. 1800. II. 70. syn. 108. Spr. syst. IV. 78. — Allosorus Pr.

Digitized by Google

t. 154. Pappe et Raws. syn. f. 31. — Cheilanthes triangula Kze. Linn. 10. 536. Hk. sp. II. 91. Mett. Cheil. n. 84. Pappe et Raws. syn. 34. Fée gen. 156. Moore ind. 256. Schweinf. Beitr. 222. — Pteris consobrina Kze. Linn. 10. 526. — Pellaea Hk. sp. II. 145. t. 117 A. — Cheilanthes Atherstoni Hk. sp. II. 107. Mett. Cheil. 34[b]. Pappe et Raws. syn. 37. Moore ind. 235. — Pteris obscura Bojer msc. — Cheilanthes firma Moore in Hk. j. bot. V. 225. Mett. Cheil. n. 84[b]. Pappe et Raws. syn. 37. Moore ind. 241. — Cheilanthes linearis Moore in Hk. j. bot. V. 226. Mett. Cheil. n. 84[c]. Pappe et Raws. syn. 37. Moore ind. 246.

**Prom. bon. spei (Ecklon et Zeyher, Drège); prope Albany (Atherstone). Burchell. cat. 2816. — Natalia (Plant 318. 318*. Krauss 383. Pappe). — Madagascaria (Bojer). — Abyssinia, ad Wörtsch-Woha montium Simensium (Steudner). — Ins. Caboverdicae? (Hb. Limminghe). — As.**

Cheilanthes Rawsoni Mett. msc.

Notholaena Rawsoni Pappe syn. 43. Hk. spec. V. 110. icon. f. cent. II. t. 77.

**Prom. bon. spei; in terra Namaquensi (Whitehead).**

Cheilanthes refracta Pappe et Raws.

Pappe et Raws. syn. f. cap. 34. Moore ind. 251.

**Prom. bon. spei. Griqualand (Moffat).**

Cheilanthes Schimperi Kze.

Kze. fil. I. 52. t. 26. Mett. Cheil. n. 63. fig. 34. 35. Schweinf. Beitr. 222. — Hypolepis Hk. sp. II. 70. Fée gen. 147. — Adiantopsis Moore syn. XXXVII. ind. 18.

**Abyssinia; in monte Scholoda (Schimper); prope Gafta (Schimper 1207); prope Djeladjeranne (Schimper 1651); prope Keren (Steudner); inter Tschelga et Woechni (Steudner).**

## 17. Pteris L. Mett.

Pteris angulosa Bory.

Bory. W. V. 377. Poir. suppl. IV. 603. Spr. syst. IV. 73. Bojer. hort. Maurit. 400. — Pteris articulata Klf. Spr. syst. IV. 76. Bojer. hort. Maurit. 402. Mett. f. h. Lips. 55. Hk. sp. II. 214. — Litobrochia Pr. t. 149. Moore ind. syn. XLIV. — Doryopteris Fée gen. 133.

**Ins. Borboniae (Bory in hb. W. 19983). — Ins. Mauritii (Sieber syn. f. 77). — Madagascaria (Bojer).**

Pteris aquilina L.

L. sp. 1533. Sw. syn. 100. Bory. Ess. Fort. 314. W. V. 402. Ag. rec. 50. Eng. Bot. t. 1679. Mett. f. h. Lips. 59.

Digitized by Google

Hk. sp. II. 196. — Specimina glabra locis Africanis enata nondum vidi. Cf. Hk. sp. II. 197.

var. lanuginosa Hk. sp. f. II. 196. Thwaites. Ceyl. 386.

Pt. capensis Thbg. prod. 172. fl. cap. 733. Sw. Schrad. j. 1800. II. 68. syn. 101. W. V. 393. Schldl. ad. 45. t. 25. Klf. Linn. 11. 186. Kze. Linn. 10. 527. Spr. syst. IV. 77. — Pt. lanuginosa β. capensis Ag. rec. 51. — Allosorus capensis Pappe et Raws. syn. 32. — Allosorus hottentottus Pr. t. 154. — Pteris lanuginosa Bory. W. V. 403. Poir. suppl. V. 618. Spr. fil. nov. mant. 231. t. 16. f. 2. Klf. en. 189. J. Sm. Hk. j. bot. III. 406. Kze. Linn. 10. 527; 24. 272. Ag. rec. 51. Boj. hort. Maur. 402. — Allosorus Pr. t. 154. — Pteris coriifolia Kze. Linn. 18. 120. Hk. sp. II. 199. — Allosorus Pappe et Raws. syn. 31. — Pteris aquilina L. Desft. fl. Atl. II. 401. Guill. Arch. I. 482. Munby. cat. 35. Hk. f. in j. Linn. Soc. VII. 235. — Allosorus aquilinus Pr. t. 154. Pappe et Raws. syn. 32. — Pteris caudata Guill. Arch. I. 482. Etc.

Algeria. — Regnum Maroccanum. — Ins. Madeira. — Ins. Canarienses. — Ins. Caboverdicae. — Senegambia (Heudelot 883). — Sierra Leone (Afzelius). — Ins. Fernando Po (Vogel, Barter). — Montes Cameroon (Mann). — Angola (Welwitsch). — Prom. bon. spei (Bergius, Ecklon et Zeyher, Sieber syn. f. 10. Drège, Krebs, Breutel, Willd. hb. 20007). — Natalia (Plant 307. Gueinzius). Prope Macalisberg (Sanderson). — Ins. Mauritii (Sieb. syn. f. 76. fl. mixt. 309. Wall. cat. 98). — Ins. Borboniae (Bory in hb. W. 20023. Ad. Delessert, Pappe, Boivin 842). — Madagascaria (Goudot). — Ins. Comorae; ins. Angasilia (Kersten 25). — Mons Kilimandjaro (Kersten n. 24). — Abyssinia (Schimper 1322). — As. E.

## Pteris arguta Ait.

Ait. hort. Kew. (1789.) III. 458. Sw. Schrad. j. 1800. II. 66. syn. 98. W. V. 387. Guill. Arch. I. 482. Lk. hort. Berol. II. 29. Ag. rec. gen. Pter. 36. Webb. et Berth. phyt. canar. III. 450. Seubert. fl. azoric. 15. Hk. sp. II. 184. Bolle zt. f. Erdk. 14. 308. Ettingh. farn. 93. t. 55. f. 5; t. 60. f. 7. — Pteris incompleta Cav. Prael. 1801. n. 663. Anal. IV. 107. — Pteris palustris Lam. enc. V. 722. — Pteris Kingiana Lowe f. III. t. 46. — Pteris Allosora Lk. hort. Berol. II. 31. spec. 57. Ag. rec. 35. Mett. fil. h. Lips. 58.

Regnum Maroccanum. — Ins. Madeira. — Ins. Canarienses (Broussonet et Bory in hb. W. 19997. Bourgeau 1550 alii). — Ins. St. Helenae. — E.

var. flabellata (Thbg.) Mett.

a. major Mett. msc.

Pteris flabellata Thbg. prodr. 172. fl. cap. 733. Sw. Schrad. j. 1800. II. 66. syn. 99. W. V. 396. Ag. rec. 37. Kze. Linn. 23. 321. Mett. fil. h. Lips. 57. Hk. sp. II. 185. Ettingh. farn. 93. t. 58. f. 9; t. 59. f. 6. 7; t. 63. f. 2. Hk. fil. journ.

Digitized by Google

Linn. soc. VII. 235. Schweinf. Beitr. 223. — Pteris arguta Schldl. ad. 43. Kze. Linn. 10. 524. Brack. expl. 116. Lowe f. III. t. 41. Pappe et Raws. syn. 26. — Pteris elegans Jacq. Fragm. 74. t. 116. — Pteris serrulata Forsk. fl. aeg. arab. 187. Sw. syn. 108. — Pteris dentata Forsk. fl. aeg. arab. 186. — Pteris semiserrata Roxb. pl. St. Helen. 319. Antom. fl. Helen. 265.

Ins. Caboverdicae. — Ins. Fernando Po (Mann 382). — Ins. St. Thomae. — Angola (Welwitsch; iter angolense 177). — Ins. St. Helenae (Cuming 425. Burchell 189. Andersson, J. D. Hooker aliique). — Prom. bon. spei (Sieber s. f. 9. fl. mixt. 315. Ecklon 667. Krebs 376. Ecklon et Zeyher 38); prope Uitenhaage (Harvey 528); prope Macalisberg (Zeyher et Burke, Sanderson); prope Kerstenbosch (Bergius). — Natalia (Pappe). — In monte Kilimandjaro (Kersten 23). — Ins. Mauritii (Commerson in hb. W. 19985). — Ins. Borboniae (Ex Hb. Mus. Par. commun.). — Abyssinia; prope Sabra (Schimper 1156); prope Adoa (Schimper).

b. minor Mett. msc.

Lonchitis Ascensionis Forst. Comm. Gött. 1789. 9. 72. — Pteris Ascensionis J. Sm. Act. Taurin. V. 413. Sw. Schrad. j. 1800. II. 67; 1803. II. 286. syn. 100. 294. W. V. 400. Poir. suppl. IV. 607. Schk. f. 87. t. 94. Ag. rec. 38. Spr. syst. IV. 78. Bory voy. Coq. 276.

Ins. Ascensionis (Forster in Hb. W. 20018, Curror, D'Urville, J. D. Hooker, Seemann).

## Pteris atrovirens W.

W. V. 385. Spr. syst. IV. 74. Ag. rec. 28. Hk. sp. II. 205. — Pteris spinulifera Schum. K. Dansk. Ved. Afh. IV. 233. s. Beskr. Guin. pl. 459. Ag. rec. 62. Hk. sp. II. 221. — Pteris spinulosa Vahl ex Hornem. Ann. Havn. 1819. 8. — Pteris remota Hornem. msc.

Sierra Leone (Barter). — Prom. Palmas (Ansell). — Ins. Fernando Po (Vogel, Barter, Mann 135). — Ins. Principis (Ed. Jardin). — Guinea (Mortensen, Thonning). — Regnum Owariense (Flügge in hb. W. 19995). — Sinus Ambas (Mann 786). — Ad flumen Bagroo (Mann 910). — Congo (Christ. Smith in Hb. Banks).

## Pteris Barkleyae Mett. msc.

Rhizoma?; folia chartacea, rigida, glaberrima; petiolus ad 1¼′ longus cum rhachi purpurascens, nitidus; lamina 1′ longa, quinquangulari cordata s. ovata, quadripinnatisecta; segmenta primaria alterna s. opposita, patentia, infima manifeste petiolata, inaequaliter ovata, acuminata, superiora oblongo-lanceolata, acuminata, secundaria, ovato-lanceolata, tertiaria trapezio-oblonga s. lanceolata, ultima lanceolata, acuta, apice sterili argute pauci-dentata; nervi angulo acuto decurrentes, sori latiusculi latera laciniarum occupantes, elongati s. ab-

Digitized by Google

breviati; indusium scariosum rigidum integerrimum, latiusculum; paraphyses nullae. (Mett. msc.) — Cheilanthes Hb. Hk.

Ins. Sechellae (Lady Barkley, Kirk).

Recedit ab Pteride pallente rhachi purpurascente, laciniarum forma acuta s. acuminata.

Pteris biaurita L.

L. suppl. 1534. Sw. Schrad. j. 1800. II. 66. syn. 98. Spr. syst. IV. 74. Hk. Grev. ic. t. 124. Ag. rec. 26. Bl. en. 210. Wall. cat. 100 pt. Hk. sp. II. 103. Boj. hort. Maurit. 400. — Pteris semiaurita Lam. — Campteria biaurita Hook. Pappe et Raws. syn. 29. Moore ind. 220. t. 31 A. pt. — Pteris catoptera Kze. Linn. 18. 119. Hk. sp. II. 189. Pappe et Raws. syn. 26. — Pteris nemoralis W. hb. pt. — Reliqua synonyma referenda sunt ad specimina locis asiaticis et americanis enata.

Sierra Leone (Mortensen). — Ad flumen Niger (Barter). — Ins. Fernando Po (Vogel). — Montes Cameroon (Mann 1368). — Angola (Welwitsch; iter angolense 7. 138). — Ins. Comorae; ins. Johannae (Meller); ins. Mayotte (Boivin); ins. Angasilia (Kersten 22). — Ins. Mauritii (Bojer). — Ins. Borboniae (Ex Hb. Mus. Paris. communic.). — As. Am. c. a.

Pteris Boivini Moore.

Beddom. F. S. Ind. 12. t. 36. — Pellaea Boivini Hk. sp. II. 147. t. 118 A. Thwait. Ceyl. 386. — Pteris adiantoides Dsv. (msc. ?)

Prom. bon. spei; prope Macalisberg (Zeyher et Burke). — Ins. Nossi-beh (Boivin). — Madagascaria. — Ins. Mauritii (Bojer); ins. Borboniae (Hb. Lenorm.). — As.

Pteris Borbonica Hk.

Hk. sp. II. 228. — Litobrochia Borbonica Fée gen. 136.

Ins. Borboniae.

Pteris caudata L.

L. sp. 1532. Sw. Schrad. j. 1800. II. 68. syn 101. W. V. 401. Plum. fil. t. 29. Lam. enc. V. 720. Spr. syst. IV. 77. Ag. rec. 48. Kze. Linn. IX. 76. Griseb. fl. brit. Westind. 670. Liebm. Mex. Bregn. 74. Jacq. coll. II. 273. etc.

Congo (Christ. Smith in Hb. Banks atque in Hb. Havn). — Am. c. a.

Pteris contracta Mett.

Mett. Cheil. pag. 5. — Cheilanthes Kze. Linn. 23. 307. — Cheilanthes hastata var. contracta Kze. msc. — Cheilanthes cornuta Kze. Linn. 10. 534 pt. Hk. sp. II. 109 pt. — Pellaea Bojeri Hk. sp. II. 146 T. 119 A. — Pteris lasiopteris Bojer. msc. — Cheilanthes Bojeri Moore ind. 326.

Prom. bon. spei (Zeyher, Wahlberg). — Madagascaria (Bojer).

Digitized by Google

### Pteris cretica L.

L. sp. 7807. Sw. Schrad. j. 1800. II. 64. syn. 96. Schk. 85. t. 90. W. V. 374. Link hort. Berol. II. 23. Spr. syst. IV. 72. Ag. rec. 8. — Pteris cretica var. capensis. Ag. rec. 9. — Pteris cretica Thbg. prod. 171. fl. cap. 732. Kze. Acot. Afr. 43. Boj. hort. Maur. 400. Schldl. ad. 40. Pappe et Raws. syn. 26. Schweinf. Beitr. 222. — Pteris Serraria Sw. Schrad. j. 1800. II. 64. syn. 96. 289. W. V. 374. Poir. suppl. IV. 602. — Pteris pentaphylla W. V. 362. Poir suppl. IV. 601. J. Sm. Rees. Cycl. 28. — Reliqua synonyma ad. specimina locis asiaticis, europaeis, americanis, australasicis enata referenda sunt.

**Prom. bon. spei (Meuron in hb. W. 19978. Krebs 375. Ecklon et Zeyher, Drège, Harvey); in monte Hangklipp (Mundt et Maire); prope Macalisberg (Sanderson). — Natalia (Gueinzius). — Ins. Borboniae (Bory in hb. W. 19965). — Ins. Mauritii (Bojer). — Abyssinia (Schimper 1312). — As. E. P.**

### Pteris croesoides Fée.

Fée Mem. Soc. sc. nat. Strasb. vol. 16. p. 17. (nomen solum.)

**Ins. Borboniae (De Montbrison).**

### Pteris Croesus Bory.

Bory it. II. 192. Sw. syn. 103. W. V. 372. Poir. suppl. IV. 602. Spr. syst. IV. 72. Ag. rec. 39. Fée gen. 126. mem. soc. sc. nat. Strasb. 16. p. 17. — Pt. nigrescens Poir. suppl. IV. 607.

**Ins. Borboniae (Bory. Boivin 840).**

### Pteris Currori Hook.

Hook. sp. II. 232. t. 140.

**Ins. Fernando Po (Mann 365. 661). — Ad flumen Niger (Barter). — Ad sinum Elephantum (Curror).**

### Pteris dichotoma.

Acrostichum dichotomum Forsk. fl. Aeg. Arab. (1775.) 184. Vahl symb. I. t. 25. — Acrostichum radiatum Koenig msc. Roxb. crypt. pl. 17. Poir. suppl. II. 128. — Asplenium Sw. Schrad. j. 1800. II. 50. 1803. II. 284. syn. 75. W. V. 308. Poir. suppl. II. 503. Dsv. Ann. Linn. VI. 269. Spr. syst. IV. 81. Kze. Linn. 24. 259. Dcne. Arch. Mus. II. 188. J. Sm. Hk. j. bot. IV. 73. — Blechnum Pr. t. 103. Pappe et Rawson syn. 16. — Actiniopteris radiata Lk. sp. 79. Hk. ic. t. 975. spec. III. 276. Thwait. Ceyl. 386. Beddom. F. S. Ind. 43. t. 124. Ettingh. farn. 85. t. 51. f. 14—17. Moore syn. XLVII. ind. 16. t. 35 B. Speke journ. 654. Kotschy pl. Binder. — Acropteris Lk. h. Berol. II. 56. Fée gen. 76. — Pteris Bojer. hort. Maurit. 399. Mett. f. h. Lips. 54. t. 15.

Digitized by Google

f. 6. Schweinf. Beitr. 222. Milde bot. Z. 23. 180. — Acrostichum australe Vahl symb. I. 84. t. 25. — Actiniopteris Ettingh. farn. 85. t. 51. f. 10—13. — Asplenium polydactylon Webb. in Hk. Nig. fl. 193. Schmid. fl. Caboverd. 131.

Ins. Caboverdicae: ins. Fogo. — Africa australis; prope Macalisberg (Burke); in terra Griquensi (Moffat). — Ins. Borboniae (Perrottet, Armange, Commerson, Boivin 871). — Ins. Zanguebarica (Roscher n. 22. Linck 13). — Regio Madi ad flumen Nilum album (Speke). — Abyssinia; prope Eilet (Ehrenberg); ad flumen Takazze (Schimper 1716). — Regio Cordofana (Kotschy). — As.

var. elongata Mett. msc.

Acrostichum australe L. suppl. 444. Poir. suppl. I. 127. — Asplenium Sw. Schrad. j. 1800. II. 50. 1803. II. 284. syn. f. 76. 258. t. 3. f. 1. W. V. 308. Spr. syst. IV. 81. — Pteris Aub. Thouars obs. s. l. isl. d'Afr. 11. Hk. Grev. ic. t. 8. Mett. f. h. Lips. 54. Boj. hort. Maurit. 399. — Actiniopteris Lk. sp. 80. — Acropteris Lk. h. Berol. II. 56. Fée gen. 76. t. VI A. f. 2. — Actiniopteris radiata β. Hook. ic. t. 976. — Blechnum flabellatum Pr. t. 103. — Leptostegia australis A. Br. msc.

Nubia, montes Soturba (Schweinfurth 582. 584). — Abyssinia (Steudner, Kretschmer); prope Enderder (Schimper 577). — Ins. Borboniae (Boivin 870. Gaudichaud). — Ins. Mauritii (Flügge in Hb. W. 19872. Thouars). — Ins. Sechellae (Pervillé). — As.

## Pteris Doniana.

Pellaea Doniana Hk. sp. II. 137. t. 125. — Platyloma J. Sm. msc.

Africa occidentalis tropica. — Ins. St. Thomae (Don. Barter 1443). — Acra (Vogel). — Abeokuta (Irving). — Angola (Welwitsch; iter angolense 135. 136).

## Pteris dura W.

W. V. 376. Poir. suppl. IV. 602. Spr. IV. 72. Bojer hort. Maurit. 400. — Allosorus Pr. t. 153. — Pellaea Hook. sp. II. 139 pt. Litobrochia Moore syn. XLIV. — Pteris rigida Bory msc. — Pteris Burkeana Hook. spec. II. 213. t. 126 B.

Prom. bon. spei, prope Macalisberg (Burke). — Angola (Welwitsch). — Ins. Borboniae (Bory in hb. W. 19982). — Ins. Mauritii (Bojer, Boivin). — Madagascaria. — Ins. Nossi-beh (Boivin). — Ins. Comorae; ins. Angasilia (Kersten 14).

## Pteris elliptica Lam.

Lam. enc. V. 714. Sw. syn. 102. W. V. 377.

Ins. Sechellae.

## Pteris geminata Wall.

Wall. cat. 2180. Ag. rec. 31. — Campteria Beddom. F. S. Ind. 69. — Campteria Kleiniana Pr. t. 147. t. 5. f. 19. Moore ind. 220. — Litobrochia Fée gen. 135. — Campteria

Digitized by Google

Wightiana Pr. t. 147. — Campteria Anemallagensis Beddom. F. S. Ind. 14. t. 45. — Pt. biaurita Hk. sp. II. 203 pt.

Ins. Comorae; Ins. Johannae (Kirk).

## Pteris glaberrima.

Rhizoma repens, paleis? rufescentibus, lanceolatis squamosum; folia membranacea, opaco-viridia, supra in costis brevi ferrugineo-hirsuta, ceterum glaberrima; petiolus? 10″ longus; rhachis livido-rufescens, glabra; lamina ampla, ovata, bipinnatisecto-pinnatipartita; segmenta primaria manifeste petiolata, infima inaequaliter ovata, acuminata, ad 1½′ longa, superiora oblongo-lanceolata; secundaria sessilia, oblonga, longius breviusve acuminata; lobi laciniaeve semioblongae s. oblongae, obtusae, integerrimae s. sinuato-crenatae; nervi teneri, furcati, liberi s. rarius hinc inde secus costam anastomosantes; sori sinus crenarum occupantes, distincti; paraphyses articulatae, paucae. (Mett. msc.)

Lonchitis glaberrima Mett. msc. — Pteris glabra Hk. fil. journ. Linn. soc. VII. 234.

Ins. Fernando Po (Mann, Barter 2043). — Montes Cameroon (Mann 1386). — Angola (Welwitsch 132).

## Pteris glabra Mett.

Mett. fil. h. Lips. 59. — Lonchitis glabra Bory it. I. 321. Sw. syn. 93. W. V. 463. Poir. suppl. III. 495. J. Sm. Rees Cycl. 21. Kze. fil. I. 152. t. 66. Schldl. ad. 47. t. 27. Kze. Linn. 10. 528. Hk. sp. II. 57. Pappe et Raws. syn. 38. Moore syn. ind. XLIII. Ettingh. farn. 105. t. 60. f. 4—6; t. 62. f. 6. — Lonchitis Stenochlamys Fée gen. 142.

Ins. Borboniae (Bory in hb. W. 20131. Boivin). — Prom. bon. spei (Mundt et Maire, Drège, Alexander, Burchell cat. 5814). — Natalia (Gueinzius).

## Pteris hastata Thbg.

Thbg. prod. 172. et fl. cap. 733. (excl. syn.) — Pteris Calomelanos Sw. Schrad. j. 1800. II. 70. syn. 106. W. V. 393. Spr. syst. IV. 75. Schldl. ad. 43. t. 24. Kze. Linn. 10. 525. Mett. f. h. Lips. 55. Moore ind. syn. XLII. Ettingh. farn. 89. t. 51. f. 7; t. 52. f. 4—6. Schweinf. beitr. 223. — Allosorus Pr. t. 153. Hk. bot. Mag. t. 4769. Pappe et Raws. syn. 30. — Pellaea Lk. spec. 61. Hk. sp. II. 140. Fée gen. 129. Kotschy pl. Binder. 20. — Platyloma J. Sm. Bot. Mag. 72. misc. 21. Lowe f. III. t. 26. Moore in Hk. j. bot. V. 226.

Angolā (Welwitsch, iter angolense 181. 182). — Prom. bon. spei. In monte tabulari (Pappe. Carmichael); prope Grahamstown (Atherstone); in monte Flache Klippe (Bergius); prope Macalisberg (Zeyher, Burke). (Thunberg in hb. W. 20006. Meuron, Krebs 374). — Natalia (Plant 321). — Ins. Borboniae (Boivin 835. Carmichael). — Abyssinia, in regione Schohos ad Chor Ain (Steudner), mont. Mensa (Kretschmer). — As.



Digitized by Google

## Pteris heteroclita Dsv.

Dsv. Ann. Linn. VI. 299. Ag. rec. gen. Pter. 33. Pteris triplicata Ag. rec. 29. Hk. sp. II. 205. Ettingh. farn. 97. t. 61. f. 5. 6; t. 62. f. 5. — Litobrochia Fée gen. 135. — Campteria Moore ind. 221.

Ins. St. Mariae ad Madagascariam (Boivin 1587). — Madagascaria (Goudot, Bernier, Meller). — Ins. Comorae; ins. Mayotte (Boivin). — Mozambique (Forbes).

## Pteris incisa Thbg.

Thbg. prod. 171. fl. cap. 733. Sw. Schrad. j. 1800. II. 66. syn. 99. W. V. 396. Poir. suppl. V. 606. Spr. syst. IV. 70. Boj. hort. Maur. 402. Schldl. adum. 44. t. 25. Kze. Linn. 10. 44. bot. z. IV. 524. Ag. rec. 78. Pappe et Raws. syn. 26. Hk. sp. II. 230. Hk. fl. Tasm. II. 140. handb. fl. Nov. Zeal. 364. Ettingh. farn. 101. t. 68. f. 7. Griseb. fl. brit. Westind. 670. F. Müller. Chat. Ins. 74. Mett. Ann. sc. nat. sér. V. t. II. 223. — Litobrochia Pr. t. 149. Gay. fl. chil. VI. 489. — Pteris glaucescens Bory. W. V. 396. Bory. Dupp. voy. 275. — Pteris Vespertilionis Labill. fl. Nov. Holl. II. 96. t. 245. Carm. Trans. Linn. soc. 12. 513. W. V. 400. Poir. suppl. IV. 607. R. Br. prod. 154. Gaud. Freyc. 392. Ag. rec. 80. Bory. Bél. Crypt. 43. Boj. hort. Maurit. 402. Sturm. fl. chil. 52. Hk. fl. Nov. Zeal. II. 26. fl. antarct. 110. Mett. fil. h. Lips. 59. t. 15. f. 1—3. Ettingh. farn. 101. t. 62. f. 1. — Litobrochia Pr. t. 149. Brack. expl. 109. — Pteris cruciata Klf. Spr. syst. IV. 76. Boj. h. Maurit. 401. — Pteris elegans var. Mascarenensis Ag. rec. 77. — Pteris Lessonii Bory. Dupp. voy. 276. — Pteris sinuata Wall. cat. 84. — Reliqua synonyma referenda sunt ad specimina locis americanis, australasicis, polynesicis enata.

Montes Cameroon (Mann 1632). — Ins. St. Helenae. — Ins. Ascensionis (Lesson, J. D. Hooker, Seemann 2660). — Ins. Tristan d'Acunha (Carmichael, Herb. Berol.). — Prom. bon. spei; in monte Hangklipp (Mundt et Maire). (Drège, Zeyher 4620. Ecklon et Zeyher 39, 91). — Natalia (Gueinzius). — Ins. Mauritii (Sieber. syn. f. 79. Wallich. cat. 84. Bojer). — Ins. Borboniae (Bory in hb. W. 20012. Boivin 846). — As. P. NH. Am. c. a.

## Pteris involuta Sw.

Sw. Schrad. j. 1800. II. 69. syn. 104. 300. W. V. 390. Poir. enc. IV. 605. Spr. syst. IV. 75. Kze. Linn. 10. 526. Hk. sp. II. 153. Pappe et Raws. syn. 51. — Allosorus Pr. t. 153. — Cheilanthes profusa Hk. sp. II. 108. — Cheilanthes cornuta Moore ind. 237 pt.

Prom. bon. spei (Thunberg, Zeyher 4627).

Digitized by Google

**Pteris lanceaefolia Ag.**

Ag. rec. 53. Hk. sp. II. 212. — Pteris alternifolia Bojer. msc.

Madagascaria (Bojer).

**Pteris laurea Dsv.**

Dsv. Ann. Linn. VI. 299. Ag. rec. 16. Hk. sp. II. 67. — Campteria Moore ind. 220 pt.

Madagascaria (Goudot).

**Pteris leucomelas Mett. msc.**

Rhizoma abbreviatum, paleis setaceis denique nigro-carinatis dense vestitum; folia densa, supra laete viridia, infra pallida, glaberrima; petiolus basi paleaceo-setosus ad 1″ longus cum rhachi ebeneus, nitidus, supra in rhachi manifestius deplanato- vel canaliculato-marginatus; lamina 5″ longa, ovato-oblonga, bipinnata; segmenta primaria patentia, approximata, manifeste petiolata, 1½‴ longa, ovata vel ovato-oblonga, obtusa; secundaria 3—5 juga, brevissime petiolata, oblique oblonga, ovata, acutiuscula, inferiora manifestius petiolata, superiora sessilia, terminalia plerumque triloba; nervi immersi, repetito-furcati; margo revolutus, angustus, subabrupte attenuatus. Allosorus Kze. hb. (Mett. msc.)

Africa australis (Breutel).

Petiolo rhachique ebeneo jam primo obtutu nec non pinnulis non crenatis, indusio non plicato a Pteride viridi Forsk., petiolo supra sulcato, pinnulis brevius petiolatis, pinnularum terminalium forma a Pt. hastata Thbg. recedens. Media quasi inter Pt. hastatam Thbg. et viridem Forsk.

**Pteris longifolia L.**

L. sp. 1531. Jacq. h. Schoenbr. t. 399. 400. Bory Ess. Fort. 314. Sw. Schrad. j. 1800. II. 64. syn. 96. W. V. 396. Schk. t. 88. Guill. Arch. I. 482. Klf. en. 186. Tenore Syll. 490. Wall. cat. 111. Lk. h. Berol. II. 20. Ag. rec. 1. Boj. h. Maurit. 399. Pr. t. 145. Webb. et Berth. phyt. III. 450. Fée gen. 125. J. Sm. Bot. Herald. 427. Brack. expl. 112. Mett. f. h. Lips. 56. Bolle Bonpl. III. 122. ztsch. f. erdk. 14. 310. Moore ind. syn. XLII. Hk. sp. II. 157. Mett. Ann. sc. nat. sér. IV. t. XV. 66. etc. — Pteris costata Bory. W. V. 367. Poir. suppl. IV. 602. Bory Bél. Crypt. 42. Spr. syst. IV. 71. Bl. en. 208. Boj. h. Maur. 399. Lk. h. Berol. II. 20. sp. 50. Hk. Arn. Beech. voy. 256. t. 51. Pr. t. 145. Fée gen. 125. — Pteris vittata L. etc. Noronha ex Aub. Thouars. pr. phyt. — Pteris lanceolata Desf. fl. Atlant. II. 401. Munby. cat. 35. — Pteris ensifolia Sw. syn. 95. W. V.



Digitized by Google

366. Poir. enc. V. 711. Spr. syst. IV. 71. Dsv. Ann. Linn. VI. 295. Pr. t. 145. Dcne. Arch. Mus. II. 187. Webb. Spic. Gorg. 192. Bolle Bonpl. III. 122. Schmidt fl. Caboverd. 131. Schweinf. beitr. 222. — Pteris aspera Fée gen. 126. Hk. sp. II. 163. — Pteris longifolia v. sagittata Hk. sp. II. 157. — Reliqua synonyma referenda sunt ad specimina locis asiaticis, polynesicis, americanis, europaeis enata.

Algeria (Desfontaines in hb. W. 19969 alii). — Ins. Canarienses. — Ins. Caboverdicae (Forbes, Brunner, Bolle, Schmidt). — Ins. Borboniae (Bory in hb. W. 19970. Boivin 836. Ex Hb. Mus. Paris. comm.). — Ins. Mauritii (Sieber syn. f. 75. Carmichael). — Madagascaria (Forbes). — Ins. Comorae; ins. Mayotte (Boivin 2858). — Africa australis, prope Macalisberg (Burke). — Ins. Zanguebarica (Linck 19). — Africa orientalis tropica, prope Mombas (Kersten 18). — Abyssinia (Schimper 279); montes Mensa (Kretschmer). — Sennar, prope Abu Sugra (Hartmann). — E. As. Am.

## Pteris Madagascaria Ag.

Ag. rec. 17. Hk. sp. II. 171. t. 122 A. — Pteris subserrata Bory.

Ins. Madagascaria (Bojer).

## Pteris Madagascariensis.

Lonchitis Hk. sp. II. 58. t. 87 B. Moore ind. syn. XLIII.

Madagascaria (Lyall). — Ins. Comorae; ins. Mohil (Boivin).

## Pteris Manniana Mett. msc.

Rhizoma?; folia tenuiter chartacea, laete viridia, glaberrima, laevia; petiolus 2′ longus, cum rhachi stramineus, laevis; lamina 1′ longa, folii fertilis ovato-oblonga, pinnatisecta cum impari, segmenta sessilia, patentia, laxe disposita, sterilia ad 8″ longa, 1″ lata, e basi attenuata, cuneato-subrotundata, linearia, sensim attenuata, acuminata, integerrima, margine vix levissime undulata, infima hinc inde bipartita, suprema basi inferiore adnata, costa supra sulcata; nervi infra prominuli, subdensi, $1/4$‴ circiter distantes; fertilia basi manifestius cuneata, linearia, angustiora, 6—8‴ lata, longius acuminata; margo revolutus, attenuatus, integerrimus; paraphyses paucae abbreviatae. (Mett. msc.)

Africa occidentalis tropica (Mann 1266). Montes Cameroon (Mann 1385).

Ab. Pt. venusta lamina tenuiore, non scabra, nervis laxius dispositis recedens.

## Pteris marginata Bory.

Bory. it. II. 192. Bél. Crypt. 43. W. V. 399. Poir. suppl. IV. 607. Spr. syst. IV. 77. Boj. hort. Maurit. 402. Ag. rec. 67. — Litobrochia Pr. t. 149. Fée gen. 135. — Pteris semiovata Poir. enc. V. 723. — Reliqua synonyma referenda sunt ad specimina locis asiaticis et polynesicis enata.

Digitized by Google

**Ins. Fernando Po (Vogel, Barter ex Hk. sp. II. 225). — Ins. Comorae; ins. Mayotte (Boivin 2863). — Madagascaria. — Ins. Galega (Bojer). — Ins. Sechellae (Pervillé). — Ins. Borboniae (Bory in hb. W. 20015. Boivin 845). — As. P.**

## Pteris Mauritiana Will.

Willemet Herb. Maurit. 61.

**Ins. Mauritii.**

## Pteris melanolepis Ettingh.

Ettingh. farn. 88. — Onychium Kze. fil. II. 9. t. 104. f. 2. Hk. sp. II. 124. ic. pl. t. 902. Moore ind. syn. XLI. — Allosorus Dcne. Arch. Mus. II. 189. Kirschleger flora 1846. I. 303. — Cheilanthes leptophylla R. Br. in Salt. Abyssin. App. IV. p. 64. — Allosorus cuspidatus Hochst. Jaub. Spach. Ill. pl. orient. III. 1. t. 201.

**Abyssinia (Salt); ad flumen Takazze (Schimper 1672). — Nubia, mons Schellal (Schweinfurth 583. 901), mons Hotarba (Schweinfurth 902). — Cordofania (Kotschy). — As.**

## Pteris Mettenii.

Rhizoma?; folia subcoriacea, laete viridia, glaberrima; petiolus ad 2′ longus, stramineus, basi rufescens, nodulosus; rhachis straminea, laevis; lamina 1—2′ longa, oblonga s. ovata, pinnatisecto-pinnatipartita s. basi deorsum bipinnnatisecto-pinnatipartita; segmenta approximata, numerosa, subsessilia, 1′ longa, lanceolata, acuminata; laciniae numerosae sinubus acutis distinctae, ala 2—3‴ lata confluentes, patentes, e basi latiore oblongae, obtusae s. acuminatae, serratae; fertiles apice argute dentatae; costae supra prominulae; nervi manifesti, basales externi e costa in vicina costula emergentes, infimi costularum proximarum arcum Pleocnemiae 5—7 radiatum efformantes; superiores repetito furcati s. furcati liberi; sori e basi ultra medium laciniarum extensi; margo revolutus, angustus, integerrimus; paraphyses numerosae. (Mett. msc.) — Pteris Boivini Mett. msc. (non Moore.) — Pteris Pseudo-Lonchitis Mett. in hb. Vindob. (non Bory.) Ettingh. farn. 97. t. 64. f. 6. 7.

**Ins. Comorae; ins. Mayotte (Boivin 2862). — Ins. Nossi-beh (Boivin). — Madagascaria.**

## Pteris Montbrisonis Hk.

Hk. sp. f. II. 228. — Litobrochia Fée gen. 137.

**Ins. Borboniae (Montbrison).**

## Pteris Natalensis.

Lonchitis Natalensis Hk. sp. II. 57. t. 89 B. Pappe et Raws. syn. 38. Moore ind. syn. XLIII. — Lonchitis glabra Pappe msc.

**Natalia (Pappe, Gueinzius). — Ins. Comorae; ins. Johannae (Kirk).**

Digitized by Google

## Pteris nemoralis W.

W. V. 386. W. hb. pt. Bory Dupp. voy. 275. Spr. syst. IV. 74. Wall. cat. 106. Lk. h. Berol. II. 27. Ag. rec. 25. Bojer hort. Maurit. 401. Mett. f. h. Lips. 57. Hk. sp. II. 202. — Pteris Plumieri W. V. 462.

Senegambia (Heudelot). — Ins. Fernando Po (Vogel. Barter). — Sierra Leone (Barter). — Congo (Christ. Smith). — Ins. Borboniae (Carmichael. Boivin 838). — Ins. Mauritii (Bory). — Africa orientalis tropica, prope Mombas (Kersten 21). — Ins. Sechellae (Kersten 20). — As.

## Pteris nitida Mett. msc.

Rhizoma repens, crassitiem pennae anserinae subadaequans, paleis membranaceis, rufo-ferrugineis, ovatis, acuminatis obsitum, mox denudatum; folia $^3/_4$″ distantia, chartacea, tenuia, glaberrima, nitida; petiolus 7″ longus denique rufescens, nitidus; lamina 8″ longa, late quinquangulari-cordata, subquadripinnatisecta; segmenta primaria alterna, manifeste petiolata, inaequaliter ovata, superiora oblonga, apice attenuato obtusa, secundaria petiolulata trapezio-ovata s. ovato-oblonga, obtusa; tertiaria ala angusta confluentia late oblonga, ultima lanceolato-oblonga, obtusa s. acuta, integerrima s. vix repanda; nervi indivisi, translucentes, teneri; sori latera laciniarum occupantes; indusium pallidum, scariosum, integerrimum. (Mett. msc.)

Africa occidentalis. Ad flumen Gaboon (Mann 1047).

Habitu Polystichoideo cum Pt. Barkleyae congruens; rhachi laevi, laciniis obtusis, integerrimis s. subintegerrimis insignis. Nervi laciniarum ultimarum superiorum catadromi. Paraphyses nullae.

## Pteris paleacea Roxb.

Roxb. in Beatson St. Helena 319. Antomarch. fl. Helen. 256. Ag. rec. 33. Kze. Linn. 24. 272. Hk. sp. II. 186. t. 132 A.

Ins. St. Helenae (Roxburgh, Menzies, Cuming 424. J. Smith, Burchell 190. Tilesius, J. D. Hooker, Blandowick, Andersson alii).

## Pteris pallens Mett.

Mett. fil. h. Lips. 54. t. 15. f. 7—10. — Ochropteris pallens J. Sm. gen. f. 46. Hk. gen. t. 106 A. spec. II. 54. t. 77 B. Fée gen. 120. t. 29. f. 5. Moore ind. syn. XLI. t. 29 A. — Adiantum pallens Sw. syn. 125. 323. W. V. 453. Poir. suppl. I. 138. Bojer. h. Maurit. 405. — Cheilanthes Dsv. Ann. Linn. VI. 306. Wall. cat. n. 70. — Ochropteris angusta. Fée gen. f. 120. t. 29. f. 3. — Ochropteris peltigera Fée gen. f. 120. t. 29. f. 4. — Cheilanthes davallioides Bory.

Digitized by Google

Willd. V. 461. Pr. t. 160. Spr. syst. IV. 118. — Adiantum giganteum Thouars in hb. W.

Ins. Borboniae (Bory et Thouars in hb. W. 20115. Boivin 823. Vieillard. Ad. Delessert). — Ins. Mauritii (Sieber syn. fil. 53). — Madagascaria.

Pteris pectiniformis Godet Hb.

Rhizoma repens, paleis ferrugineo-fuscis, nitidis, rigidis, lanceolatis, acuminatis, subadpressis dense vestitum; folia coriacea, dura, infra pallida, denique glabriuscula, subdifformia, pinnatisecta cum impari; petiolus ebeneus, nitidus, basi paleis fuscis, nitidis, lanceolatis, angustis, acuminatis dense squamosus, supra cum rhachi paleaceo-hirsutus, infra laevis; sterilium 1½″ longus, lamina 5″ longa, 1½″ lata, lanceolata; segmenta numerosa, approximata, patenti-divergentia, breviter petiolata, 9‴ longa, 2‴ lata, e basi cordata, lineari-oblonga, obtusa, integerrima, inferiora sensim decrescentia, infima 3‴ longa; nervi immersi, repetito-furcati, liberi, vel rarissime anastomosantes; fertilium petiolus 5½″ longa, lamina 7″ longa, segmenta laxius disposita, patentia, 1″ longa, 1½‴ lata, e basi cordata, linearia, obtusa, inferiora manifestius petiolata, et paullulum decrescentia, infima 8‴ longa, terminale lateralibus supremis aequale; margo revolutus, abrupte attenuatus, rigide membranaceus, integerrimus; sori e basi ad apicem continui. (Mett. msc.).

Pteris Goudotii Kze. Hb. — Allosorus pinnatus Boivin msc. — Pteris angusta Bojer msc. in Hb. Hk. — Pteris dura Hk. sp. II. 139. t. 113 A. pt.

Ins. Comorae; ins. Mayotte (Boivin 2885). — Madagascaria (Boivin, Bojer). — Angola (Welwitsch, iter angolense 191?).

Pteris pedatoides Dsv.

Dsv. Ann. Linn. VI. 293. t. 7. f. 2. — Pteris digitato-partita W. hb. — Pteris chenopoda W. hb.

Ins. Mauritii (Thouars in hb. W. 19959. 60). — Ins. Borboniae. — Am. a.

Pteris pellucens Ag.

Ag. rec. 43. J. Sm. in Hk. j. bot. III. 405. Hk. sp. II. 191. Beddom F. S. Ind. 11. t. 32. — Hypolepis pteridioides Hook. ic. f. cent. II. t. 59. Hk. f. in. j. Linn. soc. VII. 235. — Reliqua synonyma referenda sunt ad specimina locis asiaticis s. americanis enata.

Ins. Fernando Po (Mann 1382. [384 ex Hk. ic. l. c.]). — Montes Cameroon (Mann). — As. Am. c.

Pteris pilosa Lam.

Lam. enc. V. 717. Sw. syn. 103. W. V. 362. J. Sm. Rees. Cycl. 28. Mett. Cheil. 4. — Pellaea Hk. sp. II. 132. t. 114 B. — Cheilanthes heterophylla W. hb. Klf. en. 210.

Digitized by Google

Spr. syst. IV. 115. Bojer hort. Maur. 405. — Allosorus Pr. t. 152. — Hemionitis pedatifida J. Sm. Rees. Cycl. XVII. (1819.)

Ins. Borboniae (Commerson, Boivin). — Ins. Mauritii (Thouars in hb. W. 20127).

## Pteris Pohliana Pr.

Pr. del. Prag. (1822.) I. 181. Pr. t. 145. — Pteris geraniifolia Raddi fil. Bras. (1825.) I. 46. t. 67. Hk. ic. pl. t. 915. Kze. Linn. 24. 271. bot. z. VI. 195. Mett. fil. h. Lips. 55. Ann. sc. n. sér. V. t. II. 220. sér. IV. t. XV. 66. Moore ind. syn. XLII. Thwaites Ceyl. 386. Beddom. F. S. Ind. 13. t. 37. Ettingh. farn. 92. t. 56. f. 2. — Pellaea J. Sm. bot. Herald. 6. Fée gen. 132. Hk. sp. II. 132. — Platyloma Lowe f. III. 27. — Litobrochia Moore ind. syn. 342. — Pteris pedata Kze. Linn. 10. 522. Pappe et Raws. syn. 25. Boj. h. Maur. 399. — Adiantum palmatum Schum. K. Dansk. Vid. Afh. IV. 234. — Cheilanthes Kirkii ic. fil. cent. II. t. 81. — Reliqua synonyma referenda sunt ad specimina locis americanis, asiaticis, polynesicis enata.

Guinea (Thonning). — Prom. bon. spei; ad flumen Kat (Ecklon et Zeyher). (Drège, Menzies). — Natalia (Gueinzius). — Ins. Borboniae (Ex Hb. Mus. Paris. commun.). — Ins. Mauritii (Bojer). — Madagascaria (Bojer). — Ins. Nossi-beh ad Madagascariam (Boivin). — Moramballa montes ad flumen Zambeze (Kirk). — As. P. NH. Am. a.

## Pteris Pseudo-Lonchitis Bory.

Bory. W. V. 389. Bory. Bél. Crypt. 43. Poir. suppl. IV. 605. Dsv. Ann. Linn. VI. 301. Spr. IV. 75. Ag. rec. 39. Boj. hort. Maurit. 401. Hk. sp. II. 205. — Campteria Pr. t. 147. Moore ind. 221. — Litobrochia Fée gen. 135. t. 11 A. f. 8.

Ins. Borboniae (Bory in hb. W. 20000). — Madagascaria (Goudot). — As.

## Pteris pubescens.

Lonchitis pubescens W. hb. Klf. en. 195. Spr. syst. IV. 78. Boj. hort. Maurit. 402. Pr. t. 163. t. 6. f. 29. Schott. gen. 11. Hk. gen. t. 68 A. spec. f. II. 56. Moore ind. syn. XLIII. t. 31 B. Ettingh. 105. t. 65. f. 1. 2. 7. — Lonchitis hirsuta Bory it. I. 321. Sw. syn. 93. Wall. cat. 2190. Schk. fil. 81. (pt.) t. 2. — Lonchitis javanica Dsv. enc. III. 594. J. Sm. Rees Cycl. 21. — Lonchitis tomentosa Fée gen. 143. mém. VII. 32. t. 23. f. 3.

Ins. Mauritii (Desfontaines in hb. W. 20132. Commerson, Sieber syn. f. 60. [s. 62.] fl. maurit. 14. fl. mixt. 320. Wallich, Telfair). — Ins. Borboniae (Boivin 829. Gaudichaud, Pappe, Armange, Vieillard). — Madagascaria (Vahl in Hb. Mertens). — Ins. Nossi-beh ad Madagascariam (Pervillé).

Digitized by Google

Pteris pyrophylla Bl.

Bl. en. 212. Ag. rec. gen. Pter. 30. Hk. sp. II. 181. — Pteris nemoralis Wall. cat. 106. 3.

Madagascaria (Bojer, Lyall). — Ins. Mauritii (Bojer). — Prom. bon. spei (Drège). — As.

Pteris scabra Bory.

Bory. W. V. 386. Poir. suppl. V. 605. Spr. syst. IV. 75. Bory. Bél. Crypt. 43. Boj. hort. Maurit. 401. Ag. rec. gen. Pter. 31. Hk. sp. II. 186. t. 138 A. — Pteris angusta Bory. W. V. 388. Poir. suppl. V. 603. Spr. syst. IV. 75. Bory. Bél. Crypt. 43. Boj. hort. Maur. 401. — Pteris elastica Tausch in Sieb. fil. exsicc. — Pteris mascarenensis Spr. syst. IV. 75. — Pteris sexalata Dsv. Ann. Linn. VI. 298. Ag. rec. 32. — Pteris punctata Fée mém. soc. Strasb. vol. 16. p. 18. t. 32. f. 4. — ? Pteris linearis Poir. enc. V. 723. Sw. syn. 99. W. V. 379. Wall. cat. 105. Ag. rec. 70. Boj. hort. Maurit. 400.

Ins. Mauritii (Sieber syn. f. 73. fl. maur. 15. fl. mixt. 308. Bory in hb. W. 19999. Bouton, Carmichael, Boivin, Bojer). — Ins. Borboniae (Boivin 839. Bory in Hb. W. 19998. Ad. Delessert, Vieillard). — Madagascaria.

Pteris striata Dsv.

Dsv. Ann. Linn. VI. 300.

Ins. Borboniae.

Pteris triphylla Ag.

Ag. rec. 16. Hk. sp. II. 171. t. 131 B. — Campteria laurea Moore ind. 220 pt.

Madagascaria (Lyall).

Pteris viridis Forsk.

Forsk. fl. Aeg. Arab. (1775.) 186. Spr. syst. IV. 76. — Allosorus Bernh. Moore ind. 46. — Cheilanthes viridis Sw. syn. 127. W. V. 456. Hk. sp. II. 110. — Adiantum Vahl symb. III. 104. Sw. Schrad. j. 1800. II. 84. Poir. suppl. I. 141. — Pluk. phyt. t. 403. f. 5. — Adiantum hastatum L. suppl. 447. Poir. suppl. I. 145. — Pteris auriculata Thbg. prod. 172. fl. cap. 733. — Pteris hastata Sw. Schrad. j. 1800. II. 70. 1803. II. 228. syn. 106. W. enum. 1074. spec. V. 391. Poir. enc. V. 723. Schldl. ad. 42. Lk. hort. Berol. II. 27. Spr. syst. IV. 75. Boj. hort. Maur. 401. Mett. f. h. Lips. 56. Moore syn. XLII. Ettingh. farn. 89. t. 52. f. 7. 8. Schweinf. beitr. 223. — Allosorus Pr. t. 153. Hk. gen. f. t. 5. Pappe et Raws. syn. 30. — Cassebeera J. Sm. in Hk. j. bot. IV. 159. — Pellaea Lk. spec. 60. Hk. fil. exot. t. 50. spec. II. 145. t. 116 B. Fée gen. 129. Hk. fil. j. Linn. soc. VII. 234. — Cheilanthes Kze. Linn. 10. 532; 23. 243. —

Digitized by Google

Platyloma Lowe f. III. t. 32. — Acrostichum filare Forsk. fl. Aeg. Arab. 184. — Pteris polymorpha Poir. enc. V. 719. suppl. IV. 599. — Pteris adiantoides Bory. W. V. 391. Poir. suppl. V. 606. Spr. syst. IV. 75. Boj. hort. Maurit. 401. — Pellaea J. Sm. cat. h. Kew. 1856. 4. — Platyloma Lowe f. III. t. 33. — Cheilanthes macrophylla Kze. Linn. 23. 307. — Cheilanthes hastata var. macrophylla Kze. Linn. 10. 81; 23. 244. — Pellaea Hk. sp. II. 146. t. 116 B. f. 4. — Cheilanthes hastata var. stenophylla Kze. Linn. 10. 533. — Cheilanthes hastaefolia Kze. Linn. 23. 307. Moore in Hk. j. bot. V. 226. — Pteris Schrad. Gött. Anz. 1818. 917. — Pteris hastata β. minor. Bolle. Bonpl. III. 122.

Ins. Caboverdicae; ins. St. Nicolai (Bolle). — Montes Cameroon (Mann 1382. 2003). — Prom. bon. spei: in monte Hangklipp (Mundt et Maire), ad sinum Algoa (Forbes). (Drège, Krebs 368. Ecklon et Zeyher 46. 47. 48. Breutel). — Natalia (Gueinzius, Plant 326). — Moramballa montes ad flumen Zambeze (Kirk). — Ins. Mauritii (Sieber syn. f. 80. Wallich, Bory in hb. W. 20003. Andersson, Riley). — Ins. Borboniae (Commerson, Boivin 834. Bory in hb. W. 20002). — Madagascaria (Lyall, Bojer). — Ins. Comorae; ins. Johannae (Kirk. Pluckenet phyt. t. 403. f. 5); ins. Angasilia (Kersten 15. 16. 17). — Ins. Nossi-beh (Boivin). — Mozambique (Channel). — Abyssinia, in regione Schohos ad Chor Ain (Steudner). — As.

Pteris woodwardioides W.

W. V. 360. Poir. suppl. IV. 620. Spr. syst. IV. 70. Ag. rec. 60. Hk. sp. II. 220. Ettingh. farn. 103. t. 64. f. 5. — Litobrochia Pr. t. 149. Fée gen. 135. — Pteris woodwardina Bory msc. in Hb. W. — Pteris pellucida Klf. in Sieb. fl. exsicc. Spr. syst. IV. 75. Boj. hort. Maurit. 400. — Litobrochia Pr. t. 149. — Pteris altissima Poir. in Hb. Thouars. (non Encycl.) — Pteris Thouarsii Dsv. — Pteris linearis Carm. msc. — Pteris alata Dsv. Ann. Linn. VI. 297. Ag. rec. 59.

Ins. Mauritii (Sieber syn. f. 74. Carmichael). — Ins. Borboniae (Aub. Thouars, Bory in hb. W. 19962, Gaudichaud, Boivin).

## 18. Blechnum L. Schldl.

Blechnum arborescens Nor.

Noronha prod. phyt. ex Aub. Thouars Mél. et Voy.

Madagascaria.

Blechnum Atherstoni Pappe et Raws.

Pappe et Raws. syn. f. cap. 16. Hk. sp. f. III. 31. 62. Moore ind. 193.

Prom. bon. spei, prope Grahamstown (Atherstone).

Digitized by Google

## Blechnum australe L.

L. sp. 7817. Lam. enc. I. 430. Thbg. prod. 172. fl. cap. 734. Schk. 103. t. 110 b. Sw. Schrad. j. 1800. II. 74; 1803. II. 290. syn. 114. Pluck. Alm. 89. f. 7. Houtt. syst. 13. I. 190. t. 99. f. 1. W. V. 410. Schldl. ad. 38. Schrad. goett. gel. Anz. 1818. 917. Spr. syst. IV. 92. Klf. Linn. VI. 185. Dsv. Ann. Linn. VI. 284. Lk. h. Berol. II. 77. Carm. Trans. Linn. XII. 512. J. Sm. in Hk. j. bot. IV. 168. Fée gen. 74. Mett. f. h. Lips. 63. t. 3. f. 7. Hk. sp. III. 56. Brack. expl. XVI. 129. Moore ind. 193. Ettingh. farn. 117. t. 70. f. 7; t. 73. f. 3. — Lomaria Lk. enum. 75. — Mesothema Pr. Epim. 112. — Lomaria pumila Kze. Linn. 10. 508; 23. 261. Pappe et Rawson syn. f. cap. 29. — Lomaria Dregeana Fée mém. soc. sc. n. Strasb. vol. 16. p. 9. — Blechnum tricuspe Klf. Sieb. fl. exs. — Lomaria minor Lk. hort. Berol. II. 80. — Blechnum rigidum Sw. Schrad. j. 1800. II. 75. syn. 114. 314. W. V. 410. Poir. suppl. I. 643. Spr. syst. IV. 92. Dsv. Ann. Linn. VI. 284. Pr. t. 103. Fée gen. 74. Hk. sp. III. 58. Moore ind. 204. — Mesothema Pr. Epim. 113. — Blechnum hastatum Klf. en. 161. Kze. Linn. 9. 60. Gay. fl. chil. VI. 477. Brack. expl. 130. Mett. f. h. Lips. 63. Hk. sp. III. 57. Lowe fil. IV. t. 33 B. — Reliqua synonyma referenda sunt ad specimina locis americanis enata.

Ins. Caboverdicae. — Ins. Tristan d'Acunha (Carmichael, Milne). — Prom. bon. spei (Sieber syn. f. 5. Krebs 367, Drège, Ecklon et Zeyher); prope Rondebosch (Bergius); prope Macalisberg (Sanderson). — Natalia. — Madagascaria. — As. Am. a.

## Blechnum capense Schldl.

Schldl. ad. 34. t. 18. Mett. f. h. Lips. 65. — Osmunda L. sp. 7760. Lam. enc. IV. 656. — Onoclea Thbg. prod. 171. fl. cap. 731. Sw. Schrad. j. 1800. II. 73. syn. 111. — Lomaria W. V. 291. Poir. suppl. IV. 146. Spr. syst. IV. 64. Kze. Linn. 10. 505. Brack. expl. 127. Lowe f. IV. t. 59. 60. Pappe et Rawson syn. f. cap. 27. Hk. sp. III. 22 pt. Ettingh. farn. 120. t. 77. f. 3. 9. 10. — Lomaria cordata Dsv. msc.

Prom. bon. spei; prope Kerstenbosch (Bergius); in monte Diaboli (Mundt et Maire). (Sieber syn. f. 4. fl. mixt. 257, Drège, Zeyher 4614, Ecklon et Zeyher 85. 19. Harvey, Krauss, Pappe). — Natalia (Gueinzius).

## Blechnum cycadoides.

Lomaria Pappe et Raws. syn. f. cap. 28. Hk. sp. III. 29.

Natalia (Plant 335).

Digitized by Google

Blechnum Dalgairnsiae.

Lomaria Pappe et Raws. syn. f. cap. 27. Hk. spec. III. 28.

Prom. bon. spei, prope Knysna (Miss Dalgairns).

Blechnum indicum (an Burm. fl. ind. 231?).

Noronha prod. phyt. ex Aub. Thouars Mél. et Voy.

Madagascaria.

Blechnum inflexum.

Lomaria inflexa Kze. Linn. 18. 117. fil. I. 150. t. 65. Pappe et Raws. syn. f. cap. 28. Hk. sp. III. 37.

Natalia (Gueinzius).

Blechnum marginatum.

Lomaria marginata Fée gen. 71. Hk. sp. III. 38.

Ins. Borboniae (Montbrison).

Blechnum Penna marina.

Polypodium Poir. enc. V. 520. (1804). — Lomaria Mett. msc. — Stegania alpina R. Br. prod. (1810.) 152 etc. — Acrostichum polytrichoides Thouars fl. Trist. d'Acunha 32. t. 2. (A. polypodioides inscr.) — Reliqua synonyma referenda sunt ad specimina locis austro-americanis et australasicis enata.

Ins. Tristan d'Acunha (Thouars in hb. W. 19839. Carmichael, Milne). — Am. a. NH.

Blechnum polypodioides.

Osmunda Sw. prod. 127. — Onoclea Sw. fl. Ind. Occ. III. 1585. — Lomaria Dsv. Ann. Linn. VI. 288. — Blechnum onocleoides Sw. Schrad. j. 1800. II. 75. fl. Ind. Occ. 1981. 2011. syn. 118. W. V. 405. Poir. suppl. IV. 146. Mett. Ann. sc. nat. sér. V. t. II. 225. — Onoclea attenuata Sw. Schrad. j. 1800. II. 73. syn. 112. 308. Poir. suppl. II. 148. — Lomaria W. V. 290. Lk. h. Berol. II. 82. Spr. syst. IV. 62. Pr. t. 143. Boj. h. Maurit. 406. Kze. Linn. 18. 116. Lowe f. IV. t. 64. Pappe et Raws. syn. f. cap. 28. Hk. sp. III. 6. Griseb. fl. brit. Westind. 673. — Blechnum Mett. f. h. Lips. 64. t. 3. f. 1—6. — Lomaria circinata Bojer h. Maur. 406. — Lomaria gigantea Klf. en. 150. Hk. sp. III. 10. Spr. syst. IV. 62. — Blechnum Schldl. ad. 36. — Lomaria hamata Klf. enum. 150. Spr. syst. IV. 62. — Lomaria heterophylla Dsv. Berl. Mag. V. 330. Spr. syst. IV. 65. Kze. Linn. 10. 506. Pappe et Raws. syn. f. cap. 27. Ettingh. farn. 123. t. 79. f. 5. 10. 11. — Blechnum Schldl. ad. 37. t. 20. 22. f. 1. — Lomaria acuminata Dsv. Berl. Mag. V. 326. Spr. syst. IV. 63. — Lomaria decipiens Pappe et Raws.

Digitized by Google

syn. f. cap. 29.? — Polypodium? binerve Hk. sp. IV. 175. t. 273 B.

Africa occidentalis tropica. — Prom. bon. spei; prope Kerstenbosch (Bergius); prope Grahamstown (Atherstone); prope Albany (Atherstone); prope Macalisberg (Sanderson). (Ecklon et Zeyher, Mundt, Drège, Alexander, Harvey alii). — Natalia (Gueinzius). — Ins. Mauritii (D'Urville. Sieber syn. f. 21. fl. mixt. 284. Wallich cat. 33. Bojer, Andersson). — Ins. Borboniae (Commerson, Heyne in hb. W. 19842. Pappe). — Madagascaria. — Am. c. a.

Blechnum punctulatum Sw.

Sw. Schrad. j. 1800. II. 75. syn. 114. 213. W. V. 409. Poir. suppl. I. 643. Spr. syst. IV. 92. Schldl. ad. 37 t. 21. 22. f. 2. Mett. f. h. Lips. 64. Dsv. Ann. Linn. VI. 284. Fée gen. 74. Moore syn. XXV. ind. 203. Ettingh. farn. 118. t. 73. f. 2. 8. 9. — Lomaria Kze. Linn. 10. 507. 23. 261. Lk. sp. 76. Lowe f. IV. t. 53. Pappe et Raws. syn. f. cap. 28. Hk. sp. III. 30 pt. — Mesothema Pr. epim. 113. — Lomaria densa Klf. en. 151. Gaud. Freyc. 390. Lk. h. Berol. II. 81. Pr. t. 143. — Lomaria auriculata Dsv. Berl. Mag. V. 330. Ann. Linn. VI. 290. Spr. syst. IV. 63. Pr. t. 143. — Blechnum Bergsm. cat. h. Ultra-Traject. 1857. — Lomaria australis Lowe fil. IV. t. 57. 58. — Lomaria pumila Klf. enum. 151. Spr. syst. IV. 63. Pr. t. 143.

Prom. bon. spei (Sieber syn. f. 7. fl. mixt. 263. Bergius, Forbes, Ecklon et Zeyher, Harvey alii). — Natalia (Gueinzius 38).

var. scolopendrioides Mett. msc.

Onychium Krebsii Kze. Linn. 10. 504. — Scolopendrium Kze. Linn. 18. 119. fil. I. 176. t. 74. Fée gen. 209. Mett. f. h. Lips. 67. t. 5. f. 7. Lowe f. V. t. 56. J. Sm. cat. cult. f. 49; cat. f. Kew. 6. Pappe et Raws. syn. f. cap. 24. Hook. bot. mag. t. 4768. Ettingh. farn. 126. t. 72. f. 1. — Schismatosorus Krebsii Kl. msc. — Lomaria punctulata Kze. statu anormali Hk. spec. III. 31.

Prom. bon. spei; prope Grahamstown (Krebs 361. Atherstone). — Natalia, inter flumina Omfondi et Tagela (Gueinzius).

Blechnum Spicant J. Sm.

J. Sm. Act. Taurin. V. 411. Cav. Dem. 262. n. 646. etc. — Lomaria Dsv. Berl. Mag. V. 325. Webb. et Berth. phyt. can. 448. Hk. sp. III. 14. Pappe et Raws. syn. f. cap. 29. Bolle ztsch. f. erdk. 14. 324. — Blechnum boreale Sw. Schrad. j. 1800. II. 75. Guill. Arch. I. 482. — Reliqua synonyma ad floram europaeam referenda sunt.

Regnum Maroccanum prope Tingidem (Goudot). — Ins. Madeira. — Ins. Canarienses. — Prom. bon. spei (Riche ex Pappe et Raws. l. c.; patria valde dubia). — E. As. Am. s.

Digitized by Google

Blechnum tabulare.

Pteris tabularis Thbg. prod. 171. fl. cap. 732. Sw. Schrad. j. 1800. II. 70. W. V. 366. Spr. syst. IV. 71. Pappe et Raws. syn. f. cap. 51. — Lomaria Mett. msc. — Pteris osmundoides Bory it. II 194. t. 32. — Onoclea Boryana Sw. syn. 111. 306. Schk. 98. t. 105 b. Poir. suppl. IV. 147. — Lomaria W. V. 292. Spr. syst. IV. 63. Kze. Linn. 10. 505; 13. 152. Pappe et Raws. syn. f. 27. Moore syn. ind. XXIV. — Blechnum Schldl. ad. 35. t. 19. Mett. Ann. sc. n. sér. V. t. II. 226. — Lomaria coriacea Schrad. gött. Anz. 1818. 916. Kze. Linn. 10. 506. — Lomaria cinnamomea Klf. en. 153. Spr. syst. IV. 63. — Pteris palmaeformis Aub. Thouars fl. Trist. d'Acunha 30. — Lomaria Dsv. Ann. Linn. VI. 290. — Lomaria robusta Carm. Trans. Linn. 12. 512. Fée gen. 69. — Lomaria spissa Fée gen. 71. Hk. sp. III. 29. — Lomaria obtusata Dsv. msc. — Lomaria coarctata Boj. msc. — Parablechnum salicifolium Pr. Epim. 110. — Lomaria Fée gen. 68. Hk. gen. III. 41. — Lomaria Gueinzii Fée gen. 68. 69. t. V. B. f. 9. — Blechnum Moore ind. 197. — Reliqua synonyma hujus speciei ad floram austro-americanam pertinent.

Ins. Tristan d'Acunha (Thouars, Carmichael, Milne). — Prom. bon. spei; prope Uitenhaage (Ecklon et Zeyher); in monte tabulari (Bergius); prope Macalisberg (Sanderson). (Burchell, Drège). — Natalia (Gueinzius). — Madagascaria (Bojer, Lyall). — Ins. Borboniae (Bory in hb. W. 19845). — Ins. Mauritii (Bojer, Bouton). — Am. c. a.

Blechnum unguiculatum.

Lomaria unguiculatum Fée gen. 70. Hk. sp. III. 37.

Madagascaria (Pervillé).

## 19. Woodwardia Sm.

Woodwardia radicans Sm.

J. Sm. Act. Taurin. V. 412. Sw. Schrad. j. 1800. II. 76. syn. 117. Schk. 104. t. 112. Cav. Dem. 264. n. 652. Ann. Cienc. IV. 106. W. V. 418. Wall. cat. 58. Klf. en. 138 pt. Rees Cycl. 38. Hk. gen. t. 17. Spr. syst. IV. 94. Lk. hort. Berol. II. 86. Webb. et Berth. phyt. 444. Bertol. fl. ital. crypt. 196. Mett. f. h. Lips. 66. Liebm. Mex. Bregn. 87. Lowe f. IV. t. 44. Moore ind. syn. XLV. Brack. expl. 138. Hk. sp. III. 67. Bolle ztsch. f. erdkunde 14. 326. Ettingh. farn. 124. t. 70. f. 3; t. 71. f. 6. 8; t. 72. f. 7—9. — Blechnum L. sp. 7819. Lam. enc. I. 430. Bory. Ess. Fort. 313. — Woodwardia stans Sw. syn. 117. 315. Schk. 104. t. 113. J. Sm. Rees. Cycl. 38. — Blechnum Poir. suppl. I. 644. —

Digitized by Google

Pteris ludens Wall. cat. 88. — Doodya spinulosa Wall. hb. — Woodwardia spinulosa Mart. Galeott. Foug. Mex. 64. — Woodwardia biserrata Pr. rel. Haenk. I. 33.

Madeira. — Ins. Canarienses (Broussonet in hb. W. 20048. Bolle, Bourgeau 1558 alii). — Congo (Christ. Smith in Hb. Havn). — Abyssinia (Herb. Buchinger). — E. As. Am. c. a.

## 20. Scolopendrium Sm.

Scolopendrium Hemionitis Cav.

Cav. Dem. 549. n. 1157. Ann. Cienc. V. 150. t. 41. f. 2. Sw. syn. 90. Schk. 79. t. 84. W. V. 350. Munby. cat. 35. Hk. sp. IV. 2. Ettingh. farn. 125. t. 69. f. 1. Milde bot. z. 24. 139. — Etc.

Algeria; prope Constantine (Cosson). — E.

Scolopendrium vulgare Sm.

Sm. Act. Taurin. V. 421. t. 9. f. 2. fl. brit. III. 1133. Moore brit. f. ed. III. 197. ind. syn. LII. Lowe f. 5. t. 55. Moore et Lindl. fil. nat. print. 42. Hk. brit. f. 37. sp. IV. 1. — Scolopendrium officinarum Sw. syn. 89. Munby. Cat. 35. — Asplenum Scolopendrium. L. 7829. Desfont. fl. Atlant. II. 402.

Algeria, in Atlante (ex Desf. l. c.), prope Oran (Reuter). — Madeira (Mason). — E. As. Am. s. c.

## 21. Asplenum L.

Asplenum abyssinicum Fée.

Fée gen. 199. Mett. Aspl. n. 97. t. 5. f. 29. Moore ind. 109. Hk. spec. III. 191. Hk. fil. in. J. Linn. Soc. VII. 234. Schweinf. beitr. 224. — Asplenum cuneatum Hochst. msc. — Asplenum pulchrum Moore ind. 158 pt.

Abyssinia (Schimper 679. 668); prope Woertsch-Woha (Steudner). — Ins. Fernando Po (Mann). — Montes Cameroon (Mann).

Asplenum Adiantum nigrum L.

L. sp. 7846. Forst. com. Gött. IX. 73. Sw. Schrad. j. II. 1800. 56. syn. 84. Lag. Ann. Cienc. V. 154. Spr. syst. IV. 89. Guill. arch. I. 482. Mett. Aspl. n. 128. Hook. spec. III. 187. brit. f. 33. Moore ind. 109. Bolle ztsch. f. erdk. 17. 269. — Asplenum acutum Bory. Ess. Fort. 313. W. V. 347. Poir. enc. II. 515. Klf. en. 176. Webb. et Berth. phyt. can. 440. Newm. brit. f. 230. Mett. f. h. Lips. 77. Wawra Brasil. 196. — Tarachia Pr. ep. 82. — Asplenum productum Lowe nov. fl. Mad. 524. Milde nov. Act. XXVI. 609. f. 116. —

Digitized by Google

Asplenum Virgilii Bory expl. Mor. III. 289. Munby. cat. 35. — Asplenum tabulare Schrad. Gött. Anz. 1818. 916. — Asplenum argutum Klf. en. 176. Linn. VI. 785. — Tarachia Pr. ep. 82. — Asplenum Adiantum nigrum v. capense Schldl. ad. 31. t. 17. — Asplenum serrulatum Cav. Ann. Cienc. IV. 105. Sw. syn. 83. W. V. 345. Poir. suppl. II. 514. Spr. syst. IV. 89. Dsv. Ann. Linn. VI. 277. Mett. Aspl. 128b. Moore ind. 167. Hk. sp. III. 187. — Reliqua synonyma ad floram europaeam pertinent.

Algeria, prope Bonam (Buvry), prope Algeriam (Bové 365). — Regnum Maroccanum. Mogador. — Ins. Madeira. — Ins. Canarienses (Bory et Broussonet in hb. W. 19937. Bourgeau 36. Bolle alii). — Ins. Caboverdicae. — Montes Cameroon (Mann t. Hk. fil. J. Linn. Soc. VII. 234). — Ins. St. Helenae. — Prom. bon. spei (Bergius, Sieber 181, Krebs 364, Ecklon et Zeyher). — Natalia (Gueinzius). — Ins. Mascarenae (Bory). — Abyssinia (Schimper 669. 1356). — E. As. P.

## Asplenum alternans Wall.

Wall. cat. 221. Hk. sp. III. 92. gard. f. 38. Milde bot. z. 24. 309. — Asplenum Dalhousiae Hk. ic. pl. 105. Mett. Aspl. n. 133. Moore ind. 112. Ettingh. farn. 180. t. 83. f. 9. Schweinf. beitr. 223.

Abyssinia, prope Aman-Eski (Schimper 288). — As.

## Asplenum ammifolium Mett. msc.

Truncus adscendens s. obliquus cum basi petiolorum paleis membranaceis rufescentibus, ovato-lanceolatis squamosus; folia membranacea, flaccida, glaberrima; petiolus 1—2′ longus, cum rhachi stramineus; lamina 1—2′ longa, deltoidea s. ovata, tripinnatisecto-pinnatipartita; segmenta primaria subsessilia, oblonga s. sublanceolato-oblonga, acuminata, secundaria, oblongo-lanceolata, tertiaria trapezio-oblonga, obtusa; laciniae oblongae, obtusae, paucidentatae; spinulae supra nullae; sori costae approximati. (Mett. msc.)

Asplenum aspidioides Hk. f. J. Linn. Soc. VII. 234 pt.

Ins. Fernando Po (Mann 347. 353). — Montes Cameroon (Mann 2047).

## Asplenum amplum W. hb.

Ins. Mauritii (Thouars in hb. W. 19930).

## Asplenum anisophyllum Kze.

Kze. Linn. 10. 511. Fée gen. 191. Pappe et Raws. syn. f. cap. 18. Mett. Aspl. n. 36. t. IV. f. 12. Moore ind. 113. Hk. sp. III. 111 pt. Hk. fil. j. Linn. soc. VII. 234. Ettingh. farn. 142. t. 91. f. 8. — Asplenum anisophyllum v. elongatum Kze. Linn. 10. 512; var. latifolium Hk. sp. III. 111. t. 164; var. inciso-pinnatifidum Hk. sp. III. 111; var. microphylla Nob. cf. supra pag. 20.

Digitized by Google

Montes Cameroon (Mann). — Prom. bon. spei; in montibus ad flumen Kat (Ecklon et Zeyher); Caffraria britannica (Espinasse), inter flumina Omzamwubo et Omzamcabo (Drège), prope Grahamstown (Bolton). — Natalia (Gueinzius, Sanderson, Garden, Meade). — Mons Kilimandjaro (Kersten 27. 28). — Ins. Borboniae (Boivin 857).

Asplenum arborescens Mett.

Mett. f. h. Lips. 78. t. 13. f. 19. 20. Asplen. n. 215. Hk. sp. III. 256. — Diplazium Sw. syn. 92. W. V. 354. Poir. enc. suppl. II. 488. Bory Bél. crypt. 40. Spr. syst. IV. 69. Lk. h. Berol. II. 72. Moore syn. LV. ind. 322. — Callipteris Bory it. I. 283. — Diplazium serrulatum Dsv. Ann. Linn. VI. 282. Mett. Aspl. n. 224. g. Hk. sp. III. 265.

Ins. Mauritii (D'Urville). — Ins. Borboniae (Bory in hb. W. 19950, Gaudichaud, Garnier 125, Boivin 874, Richard 715). — Ins. Comorae. — Ins. Johannae (Kirk).

Asplenum argutans Fée.

Fée gen. 191. 194. mém. VII. 53. t. 24. f. 2. Mett. Aspl. n. 209 d. Asplenum formosum Sieber.

Ins. Borboniae (Sieber 246. Griffith). — As.

Asplenum aspidioides Schldl.

Schldl. ad. 24. t. 13. Kze. Linn. 18. 118. Mett. Aspl. n. 239. Pappe et Raws. syn. 21. Hk. sp. III. 223. Ettingh. 138. t. 86. f. 10. Thwait. Ceyl. 385. — Allantodia Kz. hb. — Aspidium scandicinum W. V. 285. Poir. suppl. IV. 519. — Allantodia Klf. en. 179 pt. Spr. syst. IV. 95. — Athyrium Fée gen. 186. Moore ind. XLII. 187. — Nephrodium Bory Bél. crypt. 63. — Cystopteris Dsv. Ann. Linn. VI. 264.

Prom. bon. spei (Bergius, Mundt et Maire). — Natalia (Gueinzius, Meade). — Ins. Borboniae (Flügge in hb. W. 19832. Boivin). — Madagascaria (Bojer). — As.

Asplenum auriculatum.

Caenopteris auriculata Thbg. nov. act. Petrop. 1791. IX. 159. t. 2. f. 2. Sw. Schrad. j. 1800. II. 59. syn. 87. Dsv. Ann. Linn. VI. 267. Mett. Aspl. n. 62 b. Hk. sp. III. 217. — Darea Juss. gen. 15. W. V. 296. Schldl. ad. 32. Poir. suppl. II. 451. — Asplenum Thunbergii Kze. Linn. 10. 517. Mett. Aspl. n. 67. Pappe et Raws. syn. 22. Hk. sp. III. 208. Moore ind. 173. Ettingh. farn. 130. t. 80. f. 4. 5.

Prom. bon. spei. — Natalia (Gueinzius, Garden, Sanderson 75).

Asplenum axillare Webb et Berth.

Webb et Berth. phyt. can. 442. Lowe f. V. t. 39. Mett. Aspl. n. 247. Moore ind. syn. XLIX. Bolle ztsch. f. erdk. n. Folge. 1. 217. Milde bot. z. 24. 139. — Aspidium Sw. Schrad. j. 1800. II. 42. syn. 60. W. V. 279. — Polypodium



Digitized by Google

Ait. h. Kew. III. 466. Allantodia Klf. en. 178. Spr. syst. IV. 95. — Aspidium oliganthum Dsv. Berl. Mag. V. 321. — Nephrodium Dsv. Ann. Linn. VI. 261. — Athyrium axillare Pr. t. 98.

Ins. Madeira. — Ins. Canarienses. — E.

Asplenum Barteri Hook.

Hook. icon. fil. cent. II. t. 75.

Africa occidentalis tropica, prope Aboh (Barter 1454).

Asplenum bipartitum Bory.

Bory. W. V. 329. Poir. suppl. V. 510. Spr. syst. IV. 85. Dsv. Ann. Linn. VI. 272. Pr. t. 108. Bojer. h. Maur. 396. Fée gen. 191. Mett. Aspl. n. 65. t. V. f. 14. Moore ind. 116. Hk. sp. III. 178. Ettingh. farn. 131. t. 79. f. 7. — Diplazium Pr. ep. 88. — Asplenum auritum var. petiolatum Klf. in Sieb. fl. exs. — Asplenum auritum Wall. cat. 222.

Ins. Mauritii (Sieber syn. f. 66. fl. mixt. 299. Wallich, Carmichael, Bojer). — Ins. Borboniae (Bory in hb. W. 19941). — Madagascaria (Boivin). — Ins. Nossi-beh (Boivin). — Ins. Comorae (Boivin).

Asplenum Boivini Mett. msc.

Rhizoma repens, paleis fusco-ferrugineis, nitidis, membranaceis, lanceolatis, in setam longam productis dense vestitum; folia coriacea, laete viridia, infra pallidiora; petiolus 2—3″ longus cum rhachi livido-vel nigrescenti-fuscus, opacus; paleis e basi dilacerata lanceolatis, acuminatis dense squamoso-villosus, denique glabriusculus; lamina ad 1½′ longa, lanceolata, pinnatisecta; segmenta numerosissima, subapproximata, patentia ad 3″ longa, 5‴ lata, basi breviter attenuata, subpetiolulata, e basi superiore exciso-rotundata, auriculata vel latiore inferiore exciso-cuneata, trapezio-ovato-lanceolata vel elongata, oblongo-lanceolata, acuminata, pinnatipartita, apice producto argute serrata; inferiora decrescentia, infima 1—½″ longa; laciniae utrinque 3—10, inferiores remotae, ala angusta confluentes, obovato-cuneatae vel rhombeae, antice inciso-dentatae, utrinque soros 1—2 gerentes; superiores ala latiuscula confluentes, antice denticulatae, nervum furcatum excipientes, soro costali instructae; sori nec costam, nec sinus laciniarum attingentes, elongati; indusium membranaceum paullulum in parenchyma productum. (Mett. msc.)
Asplenum plumosum Boivin in hb. Mett.

Ins. Borboniae (Boivin).

Aspleno caudato paleis rhizomatis congruo proximum, divisione profundiore segmentorum, soris costalibus vix medium superius segmentorum occupantibus iisque non imbricatis insigne.

Digitized by Google

Asplenum Boryanum Moore.

Moore ind. 117. — Darea asplenioides Bory Bél. II. 53. Mett. Aspl. n. 52$^{e}$. Hk. sp. f. III. 217.

Ins. Mascarenae.

Asplenum brachyotus Kze.

Kze. Linn. 10. 512; 21. 217; 24. 261. Mett. Aspl. n. 74. Moore in Hk. j. bot. V. 226. Pappe et Raws. syn. 18. Moore ind. 117. — Asplenum erectum Hook. sp. III. 126 pt.

Prom. bon. spei (Drège). — Natalia (Gueinzius, Plant 327). — As.

Asplenum brachysorum R. Br.

R. Br. msc. Hb. Mus. Brit. Moore ind. 117.

Congo (Christ. Smith).

Asplenum chlaenopterum Fée.

Fée gen. 194. mém. VII. 47. t. 16. f. 1. Mett. Aspl. n. 35$^{c}$. Hook. sp. III. 115. Moore ind. 119.

Ins. Borboniae (Olivier).

Asplenum cicutarium Sw.

Sw. prod. 130. Hk. sp. III. 198. Mett. Aspl. n. 160. Moore ind. 119. etc. — (An species propria?)

Prom. bon. spei, prope Macalisberg (Sanderson). — Am. c. a.

Asplenum compressum Sw.

Sw. Schrad. j. 1800. II. 52. Sw. syn. 79. 270. W. V. 320. Poir. suppl. II. 507. Spr. syst. IV. 84. Dsv. prod. 274. Bory Dupp. voy. 270. Kze. Linn. 23. 233. J. Sm. cat. f. cult. 43. Lowe f. V. t. 16. Mett. Aspl. n. 39. Hk. fil. exot. 76. sp. III. 121. Moore ind. 120. Ettingh. farn. 140. t. 88. f. 18; t. 90. f. 9; t. 91. f. 9. — Asplenum foecundum Kze. Linn. 20. 3; 23. 234. 305. 409. Mett. f. h. Lips. 73. — Darea foecunda Fée gen. 333.

Ins. St. Helenae (Lichtenstein in hb. W. 19891, D'Urville, Cuming 430, J. D. Hooker, Lady Dalhousie, Andersson).

Asplenum concinnum.

Davallia concinna Schrad. Gött. Anz. 1818. 918. Hk. sp. I. 193. Kze. Linn. 13. 152. fil. I. 75. t. 37. f. 1. Pappe et Raws. syn. 25. — Davallia campyloptera Kze. Linn. 10. 544. — Loxoscaphe concinnum Moore Hk. j. bot. V. 227. Moore syn. XCIV. ind. 291.

Prom. bon. spei (Hesse, Drège, Krauss n. 742, Burchell cat. 5837, Atherstone). — Natalia (Gueinzius). — Moramballa ad flumen Zambese (Kirk).



Digitized by Google

var. Schimperi.

Davallia Schimperi Hk. sp. I. 193. t. 50 A. Fée gen. fil. 329. t. 27 C. f. 4. Kze. bot. z. VIII. 238. Kze. fil. I. 250. Ettingh. farn. 204. t. 142. f. 1. 6. Schweinf. beitr. 2. fl. aeth. 225. — Loxoscaphe Moore in Hk. j. bot. V. 227. Moore syn. XCIV. ind. 229. — Davallia concinna Hochst. in sched. — Microlepia Schimperi Mett. fil. h. Lips. 103.

Abyssinia, prope Adesulam montium Simensium (Schimper 1184); prope Lötho (Schimper).

## Asplenum contiguum Klf.

Klf. en. 172. Spr. syst. IV. 84. Hk. sp. III. 156. t. 194. Lowe f. IX. t. 4 A. Mett. Aspl. n. 145. Beddom. F. S. Ind. 47. t. 140. — Tarachia Pr. ep. 78. — Asplenum Nietneri Kl.

Mons Kilimandjaro (Kersten n. 32). — As. P.

## Asplenum crinulosum Dsv.

Dsv. Ann. Linn. VI. 272. Mett. Aspl. n. 147 c. Moore ind. 121.

Ins. Borboniae.

## Asplenum cuneatum Lam.

Lam. enc. II. 309. Sw. Schrad. j. 1800. II. 56. syn. 84. W. V. 344. Schk. 73. t. 78. Spr. IV. 89. Boj. h. Maur. 397. Bl. en. 187. Dcne. N. Ann. Mus. III. 347. Mett. Asplen. n. 72. t. IV. f. 27. Ann. Mus. Lugd. II. 236. Pappe et Raws. syn. 20. Moore syn. XLVIII. ind. 122. Griseb. fl. brit. Westind. 683. Benth. fl. Hongk. 451. Ettingh. farn. 137. t. 84. f. 8. 11; t. 87. f. 10; t. 89. f. 12. — Tarachia Pr. ep. 81. — Asplenum affine Sw. pt. Schrad. j. 1800. II. 56. syn. 84. 279. W. V. 343. Poir. suppl. II. 514. Hk. sp. III. 169. Moore ind. 111. — Asplenum cuneatum Lam. Mett. Aspl. l. c. et var. (t. II. f. 28.)

Ins. Borboniae (Pappe, Boivin 863, Herb. Mus. Paris. n. 251, Carmichael). — Ins. Mauritii (Bory in hb. W. 19933. f. 4. Sieber syn. f. 71. 193. Ex Herb. Mus. Paris. comm.). — As. Am. c. a.

## Asplenum Currori Hk.

Hk. sp. III. 82.

Africa occidentalis, ad sinum Elephantum (Curror); ins. Fernando Po (Mann 443); ad flumen Niger (Barter); montes Cameroon (Mann 1387).

## Asplenum dareaefolium Bory.

Bory W. V. 335. Poir. suppl. II. 512. Fée gen. 191. Hk. sp. III. 173. Moore ind. 123. Mett. Aspl. n. 159$^c$. — Asplenum caenopterioides Dsv. Ann. Linn. VI. 276.

Ins. Borboniae (Bory in hb. W. 19917. Gaudichaud). — Ins. Mauritii (Ex Herb. Mus. Paris).

Digitized by Google

Asplenum daucifolium Lam.

Lam. enc. II. 310. Moore ind. 123. — Caenopteris Dsv. Ann. Linn. VI. 268.

Ins. Borboniae.

Asplenum debile Mett. msc.

Rhizoma repens, tenerum, paleis fuscis, oblongo-lanceolatis, acuminatis dense vestitum; folia membranacea, rigidula, pallide-viridula, flexuosa, glabra; petiolus 1—2″ longus, cum rhachi laminae concolor; lamina 1—2½″ longa, 3—5‴ lata, lanceolata, pinnatisecta; segmenta numerosa, patentia, subpetiolata, basi inferiore dimidiata, incurva, superiore exciso-truncata, obovato-cuneata, margine superiore crenata; crenae 2—3 obtusae, nervum indivisum excipientes, monosorae; sori 2—3, e costula ad basin crenarum extensi, costulares; indusium latiusculum, margine eroso-dentatum. (Mett. msc.)

Ins. Comorae (Boivin in hb. Vindob).

Asplenum Dregeanum Kze.

Kze. Linn. 10. 517. fil. I. 53. t. 27. Fée gen. 191. Mett. Aspl. n. 66. Hk. sp. III. 214. Moore ind. 126. Pappe et Raws. syn. f. cap. 22. Moore in Hk. journ. bot. V. 226. — Asplenum brachypteron Kze. Linn. 23. 232. Lowe f. V. t. 15 B. Hk. fil. exot. 44. sp. f. III. 214 pt. Moore ind. 117. Asplenum dissectum J. Sm. msc. — Darea coarctata Boj. msc.

Sierra Leone (Don. Barter). — Fernando Po (Mann). — Prom. bon. spei, prope flumen Omzamcaba (Drège). — Natalia (Plant 310). — Madagascaria (Lyall). — Montes Cameroon (Mann).

Asplenum ebeneum Ait.

Ait. Hort. Kew. III. 462. Sw. syn. 79. W. V. 329. Spr. syst. IV. 85. Dsv. Ann. Linn. VI. 275. Pr. t. 108. Lk. sp. fil. 91. Fée gen. 192 A. Gray. Man. 627. Mett. fil. h. Lips. 73. Lowe f. V. t. 2. Pappe et Raws. syn. 19. Moore ind. 126. Mett. Aspl. n. 110. Hk. sp. III. 138. Ettingh. 133. t. 82. f. 9; t. 85. f. 6. — Reliqua synonyma ad floram boreali-americanam pertinent.

Prom. bon. spei (Krebs n. 363 pt., Ecklon et Zeyher, Zeyh. hb. 4631, Alexander, Bolton). — Am. s.

Asplenum emarginatum Pal. Beauv.

Pal. de Beauv. fl. d'Oware et Benin II. 6. t. 61. Poir. enc. suppl. II. 504. Dsv. Ann. Linn. VI. 275. Mett. Aspl. n. 24 b. Moore ind. 127. Hk. spec. III. 100 pt. ic. fil. cent. II. 80.

Regnum Owariense (Beauvois in hb. W. 19876). — Ad flumen Onitoba (Barter 1735). — Ins. Fernando Po (Mann 343). — Ins. Principis. — Angola (Welwitsch, iter angolense n. 96).

Digitized by Google

Asplenum erectum Bory.

W. V. 328. Poir. enc. suppl. II. 510. Schldl. ad. 28. t. 15. Spr. syst. IV. 85. Dsv. Ann. Linn. VI. 271. Pr. t. 107. Boj. h. Maurit. 396. Kze. Linn. 10. 513; 23. 234. Fée gen. 191. Mett. f. h. Lips. 73. Pappe et Raws. syn. 18. Moore ind. 127. Mett. Aspl. n. 81. Hk. sp. III. 126. Hk. fil. in j. Linn. soc. VII. 234. Ettingh. farn. 139. t. 81. f. 2; t. 85, f. 4; t. 86. f. 11; t. 88. f. 19. — Asplenum inaequilaterale W. V. 322. Poir. suppl. II. 508. — Asplenum Polypodinum Bory. msc. — Asplenum mutilatum Klf. en. 171. — Asplenum insulare Carm. Trans. Linn. Soc. XII. 512. — Asplenum marinum Aub. Thouars fl. Tristan d'Acunha 34.

Montes Cameroon (Mann). — Ins. Fernando Po (Mann). — Ins. Ascensionis (Lesson). — Ins. Tristan d'Acunha (Thouars in hb. W. 19906. f. 2). — Prom. bon. spei (Bergius, Sieber syn. f. 137, Drège, Krebs 363 pt., Zeyher hb. 4629, Burchell cat. 5145, Ecklon et Zeyher 31, Gaudichaud). — Natalia (Krauss 735). — Ins. Borboniae (Bory in hb. W. 19896. 19906. f. 1. Gaudichaud). — Am. c. a. As. NH.

var. harpeodes Kz. Linn. 18. 329. Hook. sp. III. 126.

Africa occidentalis tropica (Curror).

Asplenum falcatum Lam.

Lam. enc. II. 303. Sw. Schrad. j. 1800. II. 52. syn. 77. W. V. 325. Spr. syst. IV. 84. Boj. h. Maur. 395. Fée gen. 191. Don. prod. 8. Kze. Linn. 24. 260. Mett. Aspl. n. 156. Moore ind. 128 pt. Hk. sp. III. 160 pt.

Ins. Borboniae (Ex Herb. Mus. Paris. commun.). — Ins. Mauritii (Bory in hb. W. 19902. Wall. cat. 225). — As.

Asplenum Filix femina Bernh.

Bernh. in Schrad. j. 1806. I. ². 26. 27. 28. t. 2. f. 7. Mett. Aspl. n. 246. Hk. sp. III. 217. — Synonyma cf. in Moore ind. p. 181.

Algeria (Bové, Cosson). — Ins Madeira. — Ins. Canarienses. Teneriffa. Palma (Bourgeau 145). — ? Montes Cameroon (Mann t. Hook. f. J. Linn. Soc. VII. 235). — E. As. Am. s.

Asplenum fimbriatum Kze.

Kze. Linn. 18. 117. Pappe et Raws. syn. 20. Mett. Aspl. n. 121. — Asplenum varians Hk. Gr. Hk. sp. III. 192 pt. Moore ind. 176 pt.

Natalia (Gueinzius). — As.

Asplenum firmum Fée.

Fée gen. 191. 197. — Asplenum falcatum Roxb. in Beatson. St. Helen. 299. Pritch. cat. 6. — Asplenum platybasis Kze. hb. Mett. Aspl. n. 154. — Asplenum compressum Kze. Linn. 23. 305. — Asplenum falcatum Lam. γ. firmum Moore ind. 129. Hk. sp. III. 160.

Digitized by Google

Ins. St. Helenae (Beatson, Cuming 429, Greville, J. D. Hooker, Haughton, Seemann 2637, Blandowick, Andersson).

Asplenum fissidens Bory.

Bory. Bél. II. 39. Mett. Aspl. n. 137 b. Moore ind. 130. Hk. sp. III. 151.

Ins. Mauritii (Bélanger).

Asplenum formosum W.

W. V. 329. Schldl. Linn. V. 612. Spr. syst. IV. 85. Hk. fil. exot. t. 16. Mett. Aspl. n. 106. Moore ind. 132. Hk. sp. III. 143. — Asplenum incisum R. Br. msc. Hb. Mus. Brit.

Congo (Herb. R. Brown). — As. Am. c. a.

Asplenum Gautieri Hk.

Hk. spec. f. III. 88. t. 184.

Ins. Nossi-beh ad Madagascariam (Gautier, Boivin).

Asplenum gemmiferum Schrad.

Schrad. Gött. gel. Anz. 1818. 916. Kze. Linn. 10. 510. Pr. t. 108. Fée gen. 191. Pappe et Raws. syn. f. cap. 17. Mett. Aspl. n. 23. Hk. sp. III. 99. Moore ind. 134. Ettingh. farn. 142. t. 86. f. 5; t. 90. f. 13. 14. — Asplenum lucidum Schldl. ad. 25. t. 14. f. a.

Prom. bon. spei (Drège, Zeyher Hb. 4628, Burchell cat. 5405, Ecklon et Zeyher, Villette); in monte Hangklipp (Mundt et Maire). — Natalia (Krauss 738, Meade 39). — Ins. Borboniae (Ex Herb. Mus. Paris. Carmichael).

var. laciniatum Mett.

Asplenum lucidum β. Schldl. ad. 25. t. 14 b. — Asplenum discolor Pappe et Raws. syn. 17. — Asplenum flexuosum Schrad. Goett. gel. Anz. 1818. 916. Schldl. ad. 39. Kze. Linn. 10. 512. Mett. Aspl. n. 161 h. Pappe et Raws. syn. f. cap. 51.

Prom. bon. spei Burchell cat. 5857. prope Philipstown (Ecklon et Zeyher); prope Albany (Atherstone); ad Knysna (Dalgairns). — Natalia (Krauss 747).

Asplenum Gueinzianum Mett.

Rhizoma?; folia subchartacea, livido-viridia, glabra; petiolus 2″—? longus, laminae concolor, paleis paucis, membranaceis, ovatis obsitus; lamina 9″ longa, 1½″ lata, lanceolata, pinnatisecta; segmenta numerosa, laxe disposita, patenti-divergentia, basi attenuata velut petiolulata, adnata, e basi superiore excisa, rotundata, auriculata, inferiore abscissa et exciso-cuneata, trapezio-oblonga, pinnatipartita; 9‴ longa, inferiora paullulum decrescentia; laciniae utrinque 2—3, basalis superior remota, e basi cuneata, obovato-subrotundata, bis, ter bifida, lobis subflabellatis, rectangule patens, proximae patentes abbreviatae, ala latiuscula confluentes, plerumque

Digitized by Google

bifidae, supremae indivisae; lobi obtusi; nervi laciniae basalis superioris repetito-dichotomi, soros utrinque 1—2 ad basin loborum productos gerentes, laciniarum superiorum furcati, in ramo antico sorum costalem gerentes; sori costae subparalleli, utrinque 1—2, sinum loborum non attingentes; indusium membranaceum, latiusculum, paullulum in parenchyma productum. (Mett. msc.)

Natalia (Gueinzius).

Asplenum Hemionitis L.

L. sp. pl. 1536. Bory Ess. Fort. 311. Sw. Schrad. j. 1800. II. 50. Ait. hort. Kew. ed. II. 514. Bot. Mag. t. 4911. Moore ind. 135. Hk. sp. III. 391. J. Sm. cat. ferns. 43. Brot. fl. lusit. II. 398. Bolle ztschr. f. erdk. XVII. 263. — Asplenum palmatum Lam. enc. II. 302. ill. gen. t. 867. f. 2. Cav. dem. 255. n. 630. Tourn. inst. t. 322 B. Sw. syn. 75. Schk. 62. t. 66. W. V. 306. Klf. en. 166. Spr. syst. IV. 81. Dsv. Ann. Linn. VI. 269. Lodd. Bot. Cab. t. 868. Lk. h. Berol. II. 57. sp. f. 87. Guill. Arch. I. 482. Webb et Berth. phyt. can. 438. Brack. expl. 148. Webb spic. gorgon. 193. Schmidt. fl. Caboverd. 131. Fée gen. 190. Heufl. Asplen. 9. Munby cat. 35. Lowe V. t. 6. Mett. Aspl. n. 19. Ettingh. farn. 132. t. 81. f. 4. 5. — Tarachia palmata Pr. ep. 75.

Algeria. — Regnum Maroccanum, prope Tingidem (Gouan 69). — Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Broussonet et Humboldt in hb. W. 19870. Chamisso, Bourgeau 33. 1557. alii). — Ins. Caboverdicae (Forbes, Bolle, Schmidt). — E.

Asplenum humile.

Diplazium Boj. h. Maurit. 398. Moore ind. 330.

Ins. Mauritii.

Asplenum hypomelas.

Davallia nigrescens Hk. ic. f. cent. II. t. 93. — Loxoscaphe nigrescens Moore ind. 297.

Ins. Fernando Po (Mann 448, in distr. hb. Kew. 253).

Asplenum Kraussii Moore.

Moore Ind. f. 124. Hk. sp. III. 147. t. 180 A. — Asplenum dentatum Krauss fil. Natal. 194. Flora 1846. 131. Pappe et Raws. syn. 19.

Natalia (Krauss 25).

Asplenum lanceolatum Huds.

Huds. fl. Ang. II. 454. Sw. Schrad. j. 1800. II. 55. syn. 83. W. V. 346 etc. Munby cat. 35. Mett. Aspl. n. 120. Hk. sp. III. 190. Moore ind. 139. Bolle ztsch. f. erdk. 17. 274. Webb et Berth. phyt. III. 440. Etc.

Digitized by Google

Algeria. — Regnum Maroccanum. Tingis. — Ins. Madeira. — Ins. Canarienses. — Ins. St. Helenae (J. D. Hooker ex Hk. sp. f. l. c.). — E.

## Asplenum laxum.

Athyrium laxum Pappe et Raws. syn. 16. Moore ind. 186.

Natalia (Gueinzius).

## Asplenum lineatum Sw.

Sw. Schrad. j. 1800. II. 51. syn. 78. 262. W. V. 314. Bojer h. Maur. 394. Mett. Aspl. 31 b.

Ins. Mauritii. (Species valde dubia, ab Aspleno noduloso diversa?)

## Asplenum Linckii.

Cf. supra pag. 22.

Mons Kilimandjaro (Kersten 40).

## Asplenum lobatum Pappe et Raws.

Pappe et Raws. syn. fil. cap. 22. Moore ind. 141. Hk. spec. III. 127. (partim.)

Prom. bon. spei. Caffraria (Espinasse). Ad montem Katberg (Hutton).

## Asplenum longicauda Hook.

Hook. ic. f. cent. II. t. 69. — Asplenum emarginatum Hk. sp. III. 100. partim.

Ins. Fernando Po (Mann 341). — Ins. Principis (Barter 1900). — Africa occidentalis tropica (Curror). — Ad flumen Niger (Barter in distr. hb. Kew. 523).

## Asplenum longissimum Bl.

Bl. en. 178. Kze. bot. z. IV. 442. J. Sm. in Hk. j. bot. III. 408. Fée gen. 191. Moore ind. 141. Mett. Aspl. n. 134. Hk. sp. III. 148. t. 190. — Synonyma ad specimina locis indicis et polynesicis referenda sunt.

Ins. Mauritii (Bory in hb. W. 19888. Bouton). — Ins. Diego Garcia (Bouton). — As. P.

## Asplenum lunulatum Sw.

Sw. Schrad. j. 1800. II. 52. syn. 80. W. V. 324. Poir. suppl. II. 509. Spr. syst. IV. 84. Dsv. Ann. Linn. VI. 270. Schldl. ad. 27. Kze. Linn. 10. 514. Fée gen. 191. Gaud. Freyc. 316. Bory Dupp. voy. 270. Pappe et Raws. syn. f. cap. 19. Moore ind. 142. Mett. Aspl. n. 80. Ettingh. farn. 139. t. 83. f. 21; t. 84. f. 1. — Asplenum falcatum Thbg. prod. 172. fl. cap. 734. — Asplenum Dolabella Kz. Fée gen. 191. — Asplenum regulare Sw. Vet. Acad. Handel. 1817. 67. — Asplenum erectum Hk. sp. III. 126 pt. Thwait. Ceyl. 383 pt.

Prom. bon. spei (Ecklon et Zeyher, Drège, Krebs 363 pt. Hutton). — Natalia (Gueinzius). — Ins. Borboniae (Gaudichaud). — Ins. St. Helenae (D'Urville). — As. Am. c. a.

Digitized by Google

var. setosa.

Asplenum confluens W. hb. — ? Asplenum setosum Dsv. Berl. Mag. V. 322. Ann. Linn. 272. Fée gen. 191. Mett. Aspl. n. 110 b. Moore ind. 168. Hk. sp. III. 165.

Madagascaria (Thouars in hb. W. 19897).

Asplenum macrophyllum Sw.

Sw. Schrad. j. 1800. II. 52. syn. 77. 261. W. V. 311. Poir. suppl. II. 504. Boj. h. Maurit. 394. Fée gen. 191. Lowe f. V. t. 42. Mett. Aspl. n. 152 b. Moore ind. 143. Hk. sp. III. 158. — Asplenum megalophyllum Dsv. Ann. Linn. VI. 275. — Asplenum intermedium Klf. in Sieb. fil. exs. Bl. en. 281. Boj. h. Maur. 395. — Asplenum Kaulfussii Pr. t. 106. — Reliqua synonyma ad specimina locis indicis s. polynesicis enata referenda sunt.

Ins. Mauritii (Sieber syn. f. 68. Bouton). — Ins. Borboniae (Boivin 860). — Ins. Comorae; ins. Angasilia (Kersten 35); ins. Mayotte (Boivin 2867). — Ins. Nossi-beh ad Madagascariam (Kersten 36). — As. P.

Asplenum Mannii Hook.

Hook. ic. cent. II. t. 60.

Ins. Fernando Po (Mann 372). — Montes Cameroon (Mann 2058).

Asplenum marinum L.

L. sp. 7840. Forst. Com. Gött. IX. 73. Cav. dem. 256. n. 361. Bory Ess. Fort. 312 etc. Moore ind. 144. Mett. Aspl. n. 107. Hk. sp. III. 95. Bolle ztsch. f. erdk. 17. 279.

Algeria? — Regnum Marocanum prope Tingidem (Gouan, Reuter). — Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Broussonet in hb. W. 19886. Bourgeau 145). Ferro. Gran Canaria. — Ins. St. Helenae (t. Moore l. c.). — E.

Asplenum mascarenhense Fée.

Fée gen. 191. 194. Mett. Aspl. n. 30. Moore ind. 145. Hk. sp. III. 105.

Ins. Mauritii (Pappe). — Ins. Borboniae (Montbrison).

Asplenum medium Hk.

Hk. ic. pl. t. 43. sp. fil. III. 227. — Aspidium medium Carm. Linn. Trans. 12. 511. — Aspidium intermedium Carm. msc. — Athyrium medium Moore ind. 186.

Ins. Tristan d'Acunha (Carmichael).

Asplenum Melleri Mett. msc.

Rhizoma repens, elongatum, paleis paucis, ferrugineis, 1''' longis, ovato-lanceolatis, in cilias paucas productis squamulosum mox denudatum; folia 1'' distantia, membranacea, glabra; petiolus ¼—1'' longus; lamina 3—6'' longa, lanceo-

lata, acuminata, pinnatipartita, rhachi compressa; laciniae ala mediocri confluentes, lineares, indivisae s. pleraeque bipartitae, lacinulis linearibus, obtusiusculis; sori dimidium laciniarum occupantes, indusium marginem subadaequans. (Mett. msc.)

Madagascaria (Meller).

Differt ab Aspl. producto rhizomate magis elongato foliis distantibus, laciniis primariis indivisis s. bipartitis ac foliis articulatis.

## Asplenum Mettenii.

? Asplenum macrolepis Mett. msc. var. Cf. supra pag. 20.

Africa orientalis tropica, prope Mombas (Kersten 29). — Ins. Comorae; ins. Johannae (Kirk).

## Asplenum mohillense.

Diplazium Fée mém. VIII. 85. Mett. Aspl. 215 c. Moore ind. 333. Hk. sp. III. 265.

Madagascaria.

## Asplenum monanthemum L.

L. sp. 7814. Forst. com. Gött. IX. 73. Sw. Schrad. j. 1800. II. 53. syn. 80. Smith ic. ined. t. 73. W. V. 322. Spr. syst. IV. 84. Dsv. Ann. Linn. VI. 271. Pr. rel. Haenk. I. 44. Schldl. ad. 27. Lodd. Bot. Cab. t. 1700. Carm. Trans. Linn. 12. 512. Kze. Linn. 10. 515; 18. 331; 23. 235. Kl. Linn. 20. 356. Lk. sp. 92. Mart. Gal. fil. mex. 57. 58. Webb et Berth. phyt. can. III. 439. Brack. expl. 151. t. 20. f. 2. Fée gen. 191. Liebm. Mex. Bregn. 88. J. Sm. Bot. Herald. 342. Mett. f. h. Lips. 74. t. 9. f. 7. 8. Fil. Lechl. 15. Aspl. n. 111. Ann. sc. nat. sér. V. t. II. 230. Pappe et Raws. syn. 19. Sturm fil. chil. 28. Lowe f. V. t. 1 A. Moore in Hk. j. bot. V. 226. Moore ind. 146. Hk. sp. III. 140. Hk. f. in j. Linn. soc. VII. 234. Bolle ztsch. f. erdk. n. f. I. 209. Ettingh. f. 138. t. 92. f. 11. — Asplenum cultrifolium Bory Ess. Fort. 312. — Asplenum dentex Buch. besch. Can. 189. Guill. Arch. I. 482. Lowe nat. hist. of. f. t. 16. f. 2.

Ins. Madeira. — Ins. Canarienses; ins. Palma (Bourgeau 1169, Bolle). — Ins. Caboverdicae (Hochstetter 456). — Ins. Fernando Po (Mann). — Ins. Tristan d'Acunha (Carmichael). — Prom. bon. spei (Bergius, Krebs 362, Ecklon et Zeyher, Burchell cat. 5199, Zeyher Hb. 4630, Krauss 733 alii). — Natalia (Plant 323). — Abyssinia, prope Adesulam (Schimper), in monte Aber (Schimper 869), loco non indicato (Schimper 671), prope Gaffat (Steudner). — Am. c. a. P.

## Asplenum Montbrisonis Fée.

Fée gen. 198. t. VI A. 3. Mett. Aspl. n. 161 e. Moore ind. 147. Hk. sp. III. 167.

Ins. Borboniae (Montbrison).

Digitized by Google

Asplenum Newmani Bolle.

Bolle Bonpl. VIII. 106. ztschr. f. erdk. n. f. I. 215. Milde bot. z. 21. 140. 385. — Asplenum Trichomanes Moore ind. 174 pt.

Ins. Canarienses; ins. Palma (C. Bolle).

Asplenum Nidus L.

L. sp. 7830. Cav. dem. 254. n. 625. Lam. enc. II. 303. Breyn. cent. t. 99. Sw. Schrad. j. 1800. II. 49. syn. 74. W. V. 303. Gaud. Freyc. 313. Klf. en. 164. Bory Dupp. voy. 269. Spr. syst. IV. 80. Roxb. crypt. pl. 34. Pr. t. 106. t. 3. f. 23. Boj. h. Maurit. 394. Lowe f. V. t. 15 A. IX. t. 36. Mett. f. h. Lips. 71. Asplen. n. 1. Ann. sc. nat. sér. V. t. 15. 72. Wall. cat. 198. Hk. bot. mag. t. 3101. Hk. sp. III. 77. Benth. fl. Hongk. 450. Thwait. Ceyl. 383. — Thamnopteris Nidus. Pr. epim. 68. — Thamnopteris Mauritiana Pr. epim. 68. Moore syn. ind. L. — Neottopteris Nidus J. Sm. Fée. Etc.

Ins. Mauritii (Sieber syn. f. 57. D'Urville, Helsinger, Bojer, Andersson). — Ins. Borboniae (D'Urville). — Ins. St. Mariae ad Madagascariam (Forbes). — Ins. Galega (Bojer). — Ins. Comorae. — Africa orientalis tropica, prope Mombas (Kersten 26). — As. P. NH.

Asplenum Nigritianum Hk.

Hk. sp. fil. III. 223. ic. fil. cent. II. t. 44. Minime Athyrium!

Ins. Principis. — Ins. Fernando Po (Barter 1898). — Ins. St. Thomae (Mann 1107). — Ad flumen Niger (Barter 1895).

Asplenum nigropaleaceum Kze.

Kze. Linn. 24. 270. A. Br. ind. sem. h. Berol. 1861. 2. — Asplenum arborescens Mett. Fil. h. Lips. 78. Aspl. n. 215 pt. Hk. sp. III. 256 pt. — Diplazium Moore ind. 322 pt.

Ins. St. Helenae (Cuming 427. Seemann 2641. Melliss. 11. Andersson). — As.

Asplenum nitens Sw.

Sw. syn. 264. 421. W. V. 326. Poir. suppl. II. 509. Spr. syst. IV. 84. Dsv. Ann. Linn. VI. 274. Wall. cat. 227. Pr. t. 106. Fée gen. 191. Boj. h. Maur. 396. Mett. Aspl. n. 147. Moore ind. 149. Hk. sp. III. 157. t. 195. Ettingh. 142. t. 91. f. 12; t. 92. f. 1. 5. — Asplenum macrocarpum Telfair msc. — Asplenum macrophyllum Lowe f. V. t. 42. — Asplen. nitens Sw. var. angustifolia cf. supra pag. 21.

Ins. Mauritii (Sieber syn. fil. 65. fl. mixt. 321. Ex Herb. Mus. Paris. commun.). — Ins. Comorae; ins. Angasilia (Kersten 34).

Asplenum nodulosum Klf.

Klf. in Sieb. fil. exs. Spr. syst. IV. 83. Boj. h. Maur. 395. Mett. Aspl. n. 31. t. IV. f. 3. Ettingh. farn. 142. t. 87. f. 9; t. 90. f. 2—4. — Asplenum lineatum Sw. Hk. sp. III. 104 pt.

Digitized by Google

Moore ind. 141 pt. — Asplenum notabile Fée Mém. soc. sc. n. Strasb. XVI. 27. t. 36. f. 1.

Ins. Borboniae (Bory, Boivin). — Ins. Mauritii (Sieber fl. maurit. 13. syn. f. 69. fl. mixt. 301. Wallich, Bojer, Bouton, Gardner, Andersson). — P.

var. bipinnatisectum Mett.

a) forma bidentata. Mett. Asplen. l. c. t. IV. f. 4. 5. — Darea inaequalis W. V. 208. Poir. suppl. II. 452. Fée gen. 332. t. 27 C. f. 1. — Caenopteris Bory msc. in W. V. 208. Spr. syst. IV. 91. Dsv. Ann. Linn. VI. 267. Bojer h. Maurit. 393. — Asplenum Kze. bot. z. VI. 176. Moore ind. 137. Ettingh. farn. 136. t. 88. f. 1—3.

b) forma bifida Mett Aspl. l. c. t. IV. f 6. 7. Ann. sc. nat. sér. IV. t. XV. 72. — Darea prolifera W. V. 299. Poir. suppl. II. 452. — Caenopteris Fabiana Bory msc. in W. l. c. Spr. syst. IV. 91. Dsv. Ann. Linn. VI. 268. — Asplenum Hombr. et Jacq. Voy. au Pole Sud. 81. t. 3. bis. f. ξ. Moore ind. 128. — Darea violascens Bory Bél. Crypt. 55. — Caenopteris Boj. h. Maurit. 394. — Darea intermedia Klf. Bory Bél. 55. — Asplenum violascens Moore ind. 177. — Asplenum bulbiferum γ. tripinnatum Hk. fl. N. Zeal. II. 34. ?

c) forma bipartita Mett. Aspl. l. c. t. IV. f. 8. 9. — Darea bifida Bory Bél. Crypt. 54. — Asplenum Pr. t. 109. t. 3. f. 19. J. Sm. Cat. Ferns. 82. — Asplenum inaequale Kze. Moore ind. 137 pt. et β. bifido-furcatum Moore l. c.

Varietates: Ins. Borboniae (Bory in hb. W. 19862. 19855. Boivin 869. Perrottet. Gaudichaud alii). — Ins. Mauritii (Sieber syn. f. 5ß. 57. Andersson etc.).

## Asplenum obliquum Forst.

Forst. prod. 80. n. 429. Sw. Schrad. j. 1800. II. 53. syn. 78. 268. Schk. 66. t. 71. W. V. 315. Spr. syst. IV. 83. Poir. suppl. II. 505. Boj. h. Maurit. 395. (?) Moore ind. 142. Mett. Aspl. n. 21. Hk. sp. III. 96. — Asplenum crassum Thouars fl. Trist. d'Acunha 33.

Ins. Tristan d'Acunha (Thouars in hb. W. 19884. f. 2. Bergius, Carmichael). — P. NH.

## Asplenum obliquum Wall.

Wall. cat. 2217. Moore ind. 150.

Ins. Mauritii. — Species valde dubia.

## Asplenum obtusum.

Darea obtusa Dsv. Berl. Mag. V. 323. Journ. bot. II. 43. — Caenopteris Dsv. Ann. Linn. VI. 267. Mett. Aspl. n. 52 d. Hk. sp. III. 217.

Ins. Mauritii.

## Asplenum Ottonis Hook.

Hook. sp. III. 243. Mett. Ann. sc. nat. sér. V. t. II. 234. —

Digitized by Google

Diplazium Kl. Linn. 20. 360. Moore ind. 333 pt. Mett. Aspl. n. 202 h.

·Africa occidentalis tropica. Angiama (Barter 83). — Montes Cameroon (Mann 787). — Am. a.

## Asplenum palmatifidum Moore.

Moore ind. 151. — Darea fumarioides Carm. msc. — Asple num inaequale γ. palmato-furcatum Moore olim.

Ins. Mauritii.

## Asplenum Pappei Moore.

Moore ind. 152. — Asplenum gracile Pappe et Raws. syn. f. cap. 22.

Natalia (Gueinzius).

## Asplenum pellucidum Lam.

Lam. enc. II. 305. Sw. Schrad. j. 1800. II. 57. syn. 79. W. V. 319. Spr. syst. IV. 83. Dsv. Ann. Linn. VI. 273. Pr. rel. Haenk. I. 43. Wall. cat. 226. 7091. Pr. t. 106. Bojer. h. Maurit. 395. J. Sm. in Hk. j. bot. III. 408. Moore ind. 152. Mett. Aspl. n. 135. Ettingh. farn. 143. t. 83. f. 3. — Asplenum Hilsenbergii Sieber fil. exs. — Reliqua synonyma referenda sunt ad specimina locis indicis et polynesicis enata. — Aspl. gracile W. hb.

Ins. Borboniae (Carmichael). — Ins. Mauritii (Sieber fl. mixt. 316). — Madagascaria (Thouars in hb. W. 19887, Meller). — As. P.

## Asplenum petiolulatum Mett. msc.

Rhizoma repens, paleis fuscis, subnitidis, denique subnigrescentibus, lanceolatis, acuminatis, integerrimis, reticulatis dense vestitum; folia subapproximata, chartacea, tenuia, laevia; petiolus flexuosus, 3—5″ longus, cum rhachi livido-fuscus, sparse paleaceus, denique denudatus; lamina ad 8″ longa, sublanceolata, acuminata, pinnatisecta cum impari; segmenta 6—10 juga, patentia, laxe disposita, e basi inferiore cuneata, superiore oblique truncata, trapezio-rhombea, subtriloba, ad 1½″ longa, lobis duplicato-serratis, terminali majore acuminata, versus apicem remote-serrata, lateralibus abbreviatis, triangularibus, acutis, pleraque manifeste petiolulata, petiolulo 1—2‴ longo, infima subremota, paullulum minora, superiora angustiora, decrescentia, basi utraque cuneata, terminale basi aequaliter cuneatum; nervi teneri; sori costales et costulares fere ad basin dentium extensi, basin segmentorum non intrantes. (Mett. msc.)

Ins. Borboniae (Boivin).

Proximum A. dimidiato, quod vero differt substantia rigidiore, habitu strictiore, segmentis sessilibus vel vix petiolulatis, soris et infimis ad costam extensis, nervis immersis.

Digitized by Google

Asplenum Petrarchae DC.

DC. et Lam. fl. franc. VI. 238. Poir. suppl. V. 659. Spr. syst. IV. 68 etc. Munby Cat. 35. Mett. Aspl. p. 183. n. 116. Moore ind. 153. Hk. sp. III. 138.

**Algeria. ? — E.**

Asplenum plumosum Bory.

Bory W. V. 323. Poir. enc. suppl. II. 508. Spr. syst. IV. 85. Fée gen. 191. Boj. h. Maur. 396. Mett. Aspl. n. 135 b. — Asplenum lineatum Moore ind. 141. et Hk. sp. III. 150 pt.

**Ins. Mauritii (Bory in hb. W. 19898).**

Asplenum praemorsum Sw.

Sw. prod. 130. fl. ind. occ. III. 1620. 2008. syn. 183. W. V. 339. Spr. syst. IV. 87. Dsv. Ann. Linn. VI. 278. Nees. Linn. XIX. 685. Lowe f. V. t. 7. Pr. t. 108. Kze. Linn. 10. 519. Roxb. in Beats. St. Helen. 299. Pritchard. cat. Helen. 6. Lk. h. Berol. II. 65. Boj. h. Maurit. 396. Moore ind. 155. — Asplenum furcatum Thbg. prod. 172. fl. cap. 735. Sw. Schrad. j. 1800. II. 55. syn. 83. adnot. 68. W. V. 340. Schk. 73. t. 79. Klf. en. 174. Bl. en. 186. Spr. syst. IV. 89. Dsv. Ann. Linn. VI. 278. Lk. sp. 96. Boj. h. Maur. 397. Pr. t. 108. Kze. Pl. Preiss. II. 111. Linn. 23. 235. bot. z. VI. 175. Brack. expl. 162. J. D. Hook. Linn. Trans. 20. 166. Mart. Gal. f. Mex. 62. Liebm. Mex. Bregn. 98. Fée gen. 191. 192. Mett. f. h. Lips. 77. Aspl. n. 161. Ann. Mus. Lugd. Bat. II. 236. Ann. sc. nat. sér. V. II. 230. Moore in Hk. j. bot. V. 226. Pappe et Raws. syn. 20. Hk. sp. III. 165. Thwait. Ceyl. 384. Griseb. fl. brit. Westind. 682. Thoms. in Speke. journ. 654. Ettingh. farn. 137. t. 86. f. 7. — Tarachia furcata Pr. ep. 80. — Asplenum canariense W. V. 339. Poir. suppl. II. 513. Spr. IV. 87. Webb. spic. gorg. 194. Webb. et Berth. phyt. can. 440. t. 251. Schmidt fl. Cabov. 131. Lowe f. IX. t. 19 A. Brack. expl. 161. Bolle ztsch. f. erdk. XVII. 278. — Asplenum canariense v. latifolium Bolle ztsch. f. erdk. XVIII. 279. — Asplenum praemorsum var. canariense Lowe f. IX. t. 18. — Asplenum geminaria Bory Ess. Fortun. 313. — Tarachia Pr. ep. 79. — Asplenum luridum Brouss. msc. — Asplenum strictum Bory msc. — Asplenum mascariense Dsv. Ann. Linn. VI. 278. — Asplenum adiantoides Lam. enc. II. 309. — Asplenum falsum Retz. obs. VI. 38. — Asplenum maderense Penny. Lond. hort. Brit. 494. Kze. Linn. 23. 235. — Asplenum laceratum Dsv. Ann. VI. 278. Mett. Aspl. n. 161 b. — Asplenum furcatum v. parvula Hk. fil. in j. Linn. soc. VII. 235. — Asplenum filamentosum Roxb. Pl. St. Helen. 299. Pritch. cat. 6. Moore ind. 130.

Digitized by Google

Ins. Madeira. — Ins. Canarienses (Broussonet in hb. W. 19923. Bourgeau 144. Bolle alii). — Ins. Caboverdicae (Forbes, Miller, Vogel, Bolle, Schmidt). — Montes Cameroon (Mann). — Ins. St. Helenae. — Prom. bon. spei (Vieweg in hb. W. 19924. Sieber 138. Zeyher Hb. 1875. Ecklon et Zeyher. Krebs, Burchell cat. 3469. 3092). In monte tabulari (Bergius); prope Uitenhage (Krauss 734); ad sinum Algoa (Forbes); prope Macalisberg (Sanderson). — Natalia (Plant 324. Gueinzius). — Ins. Comorae; ins. Angasilia (Kersten 37. 38. 39). — Madagascaria (Lyall, Bojer). — Ins. Mauritii (W. hb. 19924. f. 3). — Ins. Borboniae (Bory in hb. W. 19924. f. 5. Boivin 865). — Ad Leuconilum (3° 15′ Lat. Sept.) (Speke et Grant). — Abyssinia (Schimper n. 242. 243. 263. 678. 718. Steudner, Kretschmer). — As. Am. c. a. P. NH.

## Asplenum Prionitis Kze.

Kze. Linn. 10. 511. Mett. Aspl. n. 24. t. IV. f. 19. Fée gen. 191. Pappe et Raws. syn. 17. Moore ind. 157. Hk. sp. III. 102. Ettingh. farn. 142. t. 91. f. 11. — Asplenum Dufourii Fée mém. sc. n. Strasb. XVI. 26. t. 35. f. 1. — Asplenum obliquum W. V. 315 pt.

Prom. bon. spei (Drège, Ecklon et Zeyher); prope Grahamstown (Pappe). Natalia (Gueinzius. Plant 348). — Ins. Mauritii (Bory in hb. W. 19884. f. 1). — Ins. Borboniae (Bory ex Fée l. c.).

## Asplenum productum Mett. msc.

Rhizoma repens, crassitiem pennae corvinae adaequans, paleis reticulatis, membranaceis, ovatis squamulosum, mox denudatum; folia membranacea, subapproximata, glaberrima; petiolus compressus, stramineus, 1—2″ longus; rhachis alata, ala herbacea; lamina 3—6″ longa, lanceolata, bipinnatipartita; laciniae primariae petiolatae, oblongae s. ovatae, obtusae s. acuminatae, secundariae oblique patentes, indivisae s. inferiores furcatae, rarius bipinnatae; nervi Caenopteridis; sori elongati e costa fere ultra dimidium laciniarum extensi; indusium angustum, marginem non adaequans. (Mett. msc.)

Africa occidentalis tropica. Sierra de Crystal (Mann 1636).

## Asplenum proliferum Lam.

Lam. enc. II. 307. Wall. cat. 238. Mett. f. h. Lips. 74. t. XI. 7. — Diplazium Thouars fl. Trist. d'Acunha 35. Dsv. Ann. Linn. VI. 280. Klf. en. 182. Spr. syst. IV. 68. — Callipteris Bory it. I. 283. Fée gen. 219. t. 17 D. f. 2. Pr. epim. 89. Moore ind. 217. t. 43 A. — Asplenum decussatum Sw. Schrad. j. 1800. II. 51. syn. 76. 260. W. V. 310. Pr. rel. Haenk. I. 41. Mett. Aspl. n. 190. Ann. Mus. Lugd. Bat. III. 237. Hk. sp. III. 270. Ettingh. farn. 151. t. 99. f. 5; t. 100. f. 1. 6. 12. — Anisogonium Pr. t. 116. t. 4. f. 13. epim. 93. Hk. Grev. ic. 56 A. f. 1—4. — Diplazium bulbiferum Bojer msc. — Diplazium undulosum Sieb. fl. maur. — Diplazium striatum Dsv. Ann. Linn. VI. 281. — Diplazium incisum Schum. K. Dansk. Vid. Afh. IV. 232. s. Beskr.

Digitized by Google

Guin. Plant. 459. — Diplazium serratum Schum. K. Dansk. Vid. Afh. IV. 233. Mett. Aspl. n. 217. Hk. sp. III. 271. — Diplazium proliferoides Bory Bél. crypt. 38. — Reliqua synonyma referenda sunt ad specimina locis americanis s. indicis enata.

Guinea (Thonning). — Ins. Fernando Po (Vogel 130). — Africa occidentalis tropica (Curror). — Ins. Tristan d'Acunha. — Madagascaria (Bory). — Ins. Mauritii (Sieber syn. f. 30. fl. mixt. 298. fl. maur. 6. Ventenat? in hb. W. 19877). — Ins. Borboniae (Pappe, Boivin 875. 876). — As. P.

Asplenum protensum Schrad.

Schrad. Gött. gel. anz. 1818. 916. Schldl. ad. 29. t. 16. Kze. Linn. 10. 513. Pr. t. 107. Fée gen. 191. Pappe et Raws. syn. 18. Mett. Aspl. n. 137. Moore ind. 157. Hk. sp. III. 150. Ettingh. farn. 140. t. 82. f. 7. 8. 11. 14. Schweinf. beitr. 224. — Asplenum porrectum Wall. cat. 224. prius. — Asplenum polyodon Wall. cat. 224. corrig.

Prom. bon. spei (Mundt et Maire, Drège, Sanderson, Krauss 736, Atherstone, Burchell cat. 5861). — Natalia (Pappe). — Mons Kilimandjaro (Kersten 31). — Ins. Mauritii (Wallich, Bojer). — Abyssinia, prope Adesulam (Schimper 1264, 611); prope Gaffat (Steudner).

Asplenum Pteridis.

Darea Pteridis Bory Bél. crypt. 52. Mett. Aspl. n. 62 d. Hk. sp. III. 217.

Ins. Mauritii.

Asplenum pulchrum Thouars.

Thouars in hb. W. Pr. t. 108. Kze. bot. z. VI. 175. Mett. Aspl. n. 73. t. 5. f. 24. Pappe et Raws. syn. 20. Moore ind. 158. — Asplenum cuneatum Kze. Linn. 10. 516. — Asplenum erectum Hk. sp. f. III. 127 pt.

Prom. bon. spei (Bolton, Atherstone, Alexander, Espinasse). — Natalia (Gueinzius). — Ins. Mauritii (Thouars in hb. W. 19942).

Asplenum pumilum Sw.

Sw. prod. 129. Schrad. j. 1800. II. 51. fl. Ind. occ. III. 1610. syn. 76. W. V. 308. Poir. enc. II. 503. Klf. flora 1823. 366. Spr. syst. IV. 86. Kze. bot. z. IV. 473. Linn. 18. 328. Mett. f. h. Lips. 75. Aspl. n. 92. Fée gen. 191. Lowe f. V. t. 31 B. Moore ind. 158. Hk. sp. III. 174. Griseb. fl. brit. Westind. 683. Ettingh. farn. 136. t. 89. f. 2. 3. 8. Schweinf. beitr. 224. — Tarachia Pr. ep. 75. — Asplenum Schimperianum Hochst. msc. — Asplenum tenerrimum Hochst. msc. — Reliqua synonyma ad specimina locis americanis enata referenda sunt.

Abyssinia, prope Adde Arbati (Schimper 643); prope Amba Sea (Schimper 2064). — Am. c. a.



Digitized by Google

Asplenum punctatum Mett. msc.

Rhizoma abbreviatum, paleis 1‴ longis, reticulatis, opaco-ferrugineis, ovatis, acuminatis vestitum; folia coriacea, carnosa, pallide viridia, infra paleis minutis iisque velut fusco-punctata; petiolus $^1/_2$—1″ longus, cum rhachi stramineus; lamina 1—4″ longa, linearis ex apice rhachis elongatae, prolifera, pinnatisecta; segmenta numerosa, sessilia, 3—4‴ longa, trapezio-dimidiato-oblonga, paucicrenata; crenae 2—4; nervi immersi; sori pauci costales supra basin crenarum producti; indusium latiusculum, laciniato-dentatum. (Mett. msc.)

Africa occidentalis tropica; ins. St. Thomae (Mann).

Aspleno Sandersonii proximum, sed consistentia duriore laminae, soris ultra basin crenarum productis recedens.

Asplenum pygmaeum Hk.

Hk. sp. III. 147. t. 180 B.

Madagascaria (Lyall).

Asplenum pyramidatum Dsv.

Dsv. Ann. Linn. VI. 271. Mett. Aspl. n. 81 b. Moore ind. 159. Hk. sp. III. 164.

Ins. Tristan d'Acunha.

Asplenum repandum Mett. msc.

Rhizoma repens, crassitiem pennae anserinae adaequans, paleis membranaceis, ferrugineis, ovato-lanceolatis squamosum; folia subapproximata, membranacea, laete viridia, infra paleaceo-punctata; petiolus ad $4^1/_2$″ longus, flexuosus; lamina ad 1′ longa, $^1/_2$—$1^1/_4$″ lata, lanceolata, utrinque acuminata, inaequaliter sinuata s. repanda; nervi manifesti, sub angulo 40° decurrentes, furcati, rami curvati circiter 1‴ distantes, plerumque omnes soriferi; sori e costa fere ad marginem extensi. (Mett. msc.) — Asplenum concolor Hook. msc.

Ins. Principis (Barter 1910. Mann). — Ad flumen Niger (Barter. Ex hb. Kew. 505).

Asplenum »repente« Dsv.

Dsv. Ann. Linn. VI. 271. Mett. Aspl. n. 112 b. Moore ind. 160.

Ins. Borboniae.

Asplenum resectum J. Sm.

J. Sm. ic. ined. t. 72. Sw. Schrad. j. 1800. II. 54. syn. 80. W. V. 322. Spr. syst. IV. 84. Hk. Grev. ic. 114. Poir. suppl. II. 508. Fée gen. 191. Mett. Aspl. n. 103. Ann. Lugd. Bat. II. 234. Moore ind. 160. Hk. sp. III. 130. Thwait. Ceyl. 383. — Asplenum acuminatum W. hb. —

Digitized by Google

Reliqua synonyma referenda sunt ad specimina locis indicis enata.

Ins. Fernando Po (Barter). ? — Ins. Mauritii (Sieb. syn. f. 70. fl. mixt. 300. Thouars in Hb. W. 19940. Bojer. Telfair in distr. hb. Kew. 560). — Ins. Borboniae (Lam. in Hb. W. 19895. Boivin 867. Commerson. Pappe. — As. P.

## Asplenum retusum Poir.

Poir. suppl. II. 503. Dsv. Ann. Linn. VI. 270. Moore ind. 161. Mett. Asplen. n. 92 b.

Ins. Borboniae.

## Asplenum rutaefolium Mett.

Mett. Aspl. n. 60. Moore ind. 163 pt. Pappe et Raws. syn. 23. — Asplenum Borbonicum Hk. sp. III. 207.

Ins. Borboniae (Pappe, Boivin 868).

var. b. Mett. l. c.

Asplenum stans Kze. Linn. 10. 521. — Caenopteris furcata Berg. Act. Petr. VI. 249. t. 7. f. 1. Thbg. Nov. Act. Petrop. IV. II. 160. t. F. f. 1. Sw. Schrad. j. 1800. II. 60. syn. 88. adn. 69. Spr. syst. IV. 91. Dsv. Ann. Linn. VI. 267. — Adiantum L. suppl. 447. — Darea Sm. Act. Taurin. V. 409. W. V. 297. Poir. suppl. II. 451. Schldl. ad. 33. Fée gen. 332. — Asplenum Brack. expl. 170. J. Sm. cat. 45. n. 31. — Asplenum bipinnatum Brack. expl. 344 emend. — Adiantum borbonicum Jacq. coll. III. 286. t. 21. f. 1. — Adiantum achilleaefolium Lam. enc. I. 43. Poir. suppl. I. 145.

Prom. bon. spei (Drège, Krebs, Hb. W. 19854. Ex hb. Kew. 600). — Natalia (Gueinzius). — Ins. Mauritii (Vahl in hb. W. 19853. f. 1. Ex hb. Mus. Paris). — Ins. Borboniae (Commerson, Bory in hb. W. 19853. f. 2. Gaudichaud).

var. c. Mett. l. c.

Caenopteris rutaefolia Berg. Act. Petr. VI. 249. t. 7. f. 2. Spr. syst. IV. 91. Dsv. Ann. Linn. VI. 267. Thbg. prod. 172. fl. cap. 734. — Darea J. Sm. Act. Taurin. V. 409. W. V. 298. Poir. suppl. II. 452. Schldl. ad. 33. Fée gen. 332. — Asplenum Kze. 10. 521. Pr. t. 108. J. Sm. Hk. j. bot. IV. 174. Pappe et Raws. syn. 23. Ettingh. farn. 131. t. 76. f. 1; t. 79. f. 6; t. 80. f. 2. 6. 7.

Prom. bon. spei (Mundt et Maire, Ecklon et Zeyher, Zeyher hb. 4634, Krauss 743, Burchell cat. 3570). — Natalia (Plant 328).

## Asplenum Ruta muraria L.

L. sp. 1541. Sw. syn. 85. W. V. 341. Dsv. Ann. Linn. VI. 277. Fée gen. 190. Desfont. fl. Atlant. II. 404. Munby Cat. 35. Mett. Aspl. n. 126. Pappe et Raws. syn. f. cap. 20. Moore ind. 163. Hk. sp. III. 176.

Algeria, prope La Calle. — Prom. bon. spei, in cacumine montis Muizenberg (Rawson). — E. As.



Digitized by Google

Asplenum Sandersonii Hk.

Hk. sp. III. 147. t. 179.

Natalia (Sanderson). — Moramballa montes ad flumen Zambeze (Horace Waller). — Mons Kilimandjaro (Kersten 30). — Madagascaria (Meller). — Ins. Borboniae (Gaudichaud, Boivin).

Asplenum Schimperi A. Br.

A. Br. in Schweinf. beitr. 224. — Athyrium Schimperi Moug. msc. Fée gen. 187. Mett. Aspl. n. 246. f. Moore ind. 187. Hk. sp. III. 218. 235. Milde bot. z. 24. 310. A. repens Döll. Mannh. jahresb. 1861.

Abyssinia, prope Adesulam (Schimper 1270), prope Debra-Eski (Schimper 740?).

Asplenum semidentatum Fée.

Fée Mem. Soc. sc. nat. Strasb. XVI. 27. t. 38. f. 1.

Ins. Borboniae (Montbrison).

Asplenum silvaticum Mett.

Mett. f. h. Lips. 74. Aspl. n. 202. Ann. Mus. Lugd. Bat. II. 238. Hk. sp. III. 248. Benth. fl. Hongk. 452. Ettingh. farn. 150. t. 95. f. 4. Thwait. Ceyl. 385. — Diplazium Sw. syn. 92. Schk. 80. t. 85 b. W. V. 352. Spr. syst. IV. 68. Boj. hort. Maurit. 398. Moore ind. 339. — Callipteris Bory it. I. 282. — Aspl. praelongum Fée Mém. soc. sc. n. Strasb. XVI. 30. t. 37. f. 1.

Ins. Fernando Po (Mann 144 ex Moore l. c.). — Ins. Mauritii (Sieber syn. f. 29. Bojer. Carmichael. Ex hb. Mus. Paris. comm.). — Africa orientalis tropica, prope Mombas (Kersten 41). — As. P.

Asplenum sinuatum P. Beauv.

Pal. d. Beauv. fl. d'Oware. II. 33. t. 79. f. 1. Poir. enc. suppl. V. 659. Hk. fil. exot. 61. spec. III. 82. Moore ind. 168. Mett. Aspl. n. 8. — Asplenum Africanum Dsv. Berl. Mag. V. 322. Ann. Linn. VI. 268. Spr. syst. IV. 80. — Asplenum Guineense Schum. K. Danske Vid. Afh. IV. 232. — Asplenum attenuatum Schum. msc. — Asplenum sp. Ettingh. farn. 134. t. 80. f. 12.?

Guinea (Thonning). — Regnum Owariense (Beauvois). — Ad flumen Nun (Vogel 45). — Ins. Fernando Po (Barter, Vogel 129. Ex hb. Kew. n. 503). — Ins. Principis. — Ins. St. Thomae.

Asplenum solidum Kze.

Kze. Linn. 10. 520. Fée gen. 191. Mett. Aspl. n. 127. Pappe et Raws. syn. 21. Moore ind. 169. Hk. sp. III. 167. t. 201. — Tarachia Pr. ep. 80. — Asplenum solidum Kze. β. stenophylla Kze. Linn. 10. 520. — Darea mucronata Dc. Hb.

Prom. bon. spei, prope Ruigtevalley (Drège), prope Alice (Stewart), ad sinum Algoa (Forbes).

Digitized by Google

Asplenum splendens Kze.

Kze. Linn. 10. 516. Fée gen. 191. Mett. Aspl. n. 160. Pappe et Raws. syn. 21. Moore ind. 169. Hk. sp. III. 168. Ettingh. farn. 137. t. 85. f. 10; t. 87. f. 2. — Tarachia Pr. ep. 83. — Asplenum splendens Kze. var. elongatum Kze. l. c.

Prom. bon. spei, ad flumen Kat (Ecklon et Zeyher), inter flumina Omsamwubo et Omsamcaba (Drège). — Natalia (Gueinzius, Plant).

Asplenum stoloniferum Bory.

Bory it. I. 329. Sw. syn. 81. W. V. 333. Poir. suppl. II. 511. Spr. syst. IV. 86. Dsv. Ann. Linn. VI. 270. Pr. t. 108. Boj. h. Maurit. 396. Moore ind. 170. — ? Asplenum pygmaeum Boj. hort. Maurit. 395. Moore ind. 195.

Ins. Borboniae (Bory, Boivin 855). — Ins. Mauritii.

Asplenum subavenium Hook.

Hook. sp. III. 143. t. 181 B.

Madagascaria (Bojer).

Asplenum subdigitatum Mett. msc.

Darea palmata Klf. en. 181. Fée gen. 332. Mett. Aspl. n. 60 b. Caenopteris Spr. syst. IV. 91. — Asplenum rutaefolium δ. palmatum Moore ind. 163.

Ins. Mauritii.

Asplenum tenellum Roxb.

Roxb. in Beats. St. Helen. 299. Pritch. cat. 6. Moore ind. 171. — Asplenum erectum v. proliferum Hk. fil. exot. 72 pt. — Asplenum lunulatum v. proliferum Mett. Aspl. n. 80. — Asplenum radicans Pritch. cat. 6. — Asplenum reclinatum Houlston, Gard. Mag. Bot. III. 260. J. Sm. Cat. Kew. Ferns. 5. Cat. Ferns. 44. Lowe Ferns. V. t. 13 B.

Ins. St. Helenae (Cuming 424. 426. Pritchard, Melliss 6, Andersson).

Asplenum tenerum Forst.

Forst. prod. 431. Sw. syn. 78. 266. Schk. 65. t. 69. W. V. 317. Poir. suppl. II. 506. Spr. syst. IV. 83. Dsv. Ann. Linn. VI. 272. Bl. en. 181. Pr. t. 108. Fée gen. 191. Brack. expl. 149. Mett. Aspl. n. 64. Moore ind. 172. — Darea tenera Spr. Schrad. j. bot. 1799. II. 269. — Asplenum tenerum var. terminans Mett. — Asplenum terminans Kz. Hb.

Ins. Sechellae. — As. P.

Asplenum theciferum Mett.

Mett. Ann. sc. nat. sér. V. t. II. 227. — Davallia Kth. Nov. gen. I. 23. VII. 225. Kth. syn. 87. Poir. enc. V. 530. Kz. bot. z. VIII. 193. — Loxoscaphe Moore ind. — Davallia

Digitized by Google

Lindeni Hk. sp. f. I. 193. t. 56 B. Kl. Linn. 18. 544. Kze. bot. z. VIII. 238. — Microlepia Mett. fil. h. Lips. 103. — Loxoscaphe Moore in Hk. journ. bot. V. 227.

Africa occidentalis tropica. Pungo Andongo (Welwitsch, iter angolense n. 77). — Am. c. a.

## Asplenum Trichomanes L.

L. spec. pl. 1540. Desfont. fl. Atlant. II. 403. Sw. syn. 80. W. V. 331. Pr. t. 108. Mett. Aspl. n. 115. Pappe et Raws. syn. 19. Heufl. Aspl. europ. 34. Munby Cat. 35. Moore ind. 173. Hk. sp. III. 136. Bolle ztsch. f. erdk. n. f. I. 211.

Algeria (Bové 367). — Prom. bon. spei, prope Swellendam (Drège), prope Bedford (Atherstone), in monte Winterberg, Caffrariae (Ecklon et Zeyher). — Ins. Caboverdicae (Bolle). — Ins. Canarienses; ins. Palma; ins. Teneriffa. — E. As.

var. majus Mett. Aspl. l. c.

Asplenum anceps Sol. msc. in Hb. Banks. L. v. Buch. Beschr. 189. Hk. Grev. ic. t. 195. Webb. et Berth. phyt. III. 439 pt. Seubert fl. Azor. 15. Lowe fl. Mad. prim. 8. Heufl. Aspl. europ. 2. 236. Bolle ztsch. f. erdk. n. f. I. 213. — Asplenum fallax Lowe msc. — Asplenum ebenum Holl. fil. exsicc.

Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Bourgeau 1170).

## Asplenum umbrosum J. Sm.

J. Sm. bot. Mag. 72. misc. 30. Hk. j. bot. IV. 174. cat. Ferns. 47. Webb. et Berth. phyt. III. 442. Mett. f. h. Lips. 79. Lowe f. V. t. 41. Mett. Aspl. n. 231. Hk. sp. III. 232. Ettingh. farn. 138. t. 92. f. 10. — Allantodia umbrosa R. Br. prod. 149. Klf. enum. 179. Spr. syst. IV. 95. Dsv. Ann. Linn. VI. 265. Lk. sp. 42. Kze. Linn. 23. 218. — Aspidium umbrosum Sw. Schrad. j. 1800. II. 42. syn. 60. Schk. Crypt. 59. t. 61. W. V. 283. — Polypodium Ait. hort. Kew. III. 466. Poir. suppl. IV. 520. — Athyrium Pr. t. 98. Fée gen. 186. Bolle ztsch. f. erdk. n. f. I. 216. — Asplenum Aitoni Moore syn. XLIX. ind. 111.

Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (de la Perraudière). — Ins. Caboverdicae; ins. St. Antonii (Stübel). — E.

## Asplenum variabile Hk.

Hk. sp. f. III. 93. t. 85.

Ins. Fernando Po (Barter).

## Asplenum venosum Hk.

Hk. sp. f. III. 83.

Africa occidentalis tropica, ad sinum Elephantum (Curror).

Digitized by Google

Asplenum viviparum Pr.

Pr. t. 109. t. 3. f. 20 pt. Hombr. et Jacq. voy. Pol. Sud. 81. t. 3. fig. K. Kze. Linn. 23. 273. Mett. f. h. Lips. 71. Aspl. n. 56. J. Sm. cat. Kew. ferns. 6. Lowe f. V. t. 9. Moore ind. 178. Hk. fil. exot. t. 64. sp. III. 215. — Acrostichum L. suppl. 444. Lam. enc. I. 38. Poir. suppl. I. 129. — Caenopteris Berg. Nov. Act. Petrop. VI. t. II. 250. t. 7. f. 3. Sw. Schrad. j. 1800. II. 60. syn. 89. Spr. syst. IV. 91. Wall. cat. 239. Boj. h. Maurit. 394. — Darea J. Sm. Act. Taurin. V. 409. W. V. 302. Poir. suppl. II. 453. Bory Bél. crypt. I. 56. Fée gen. 232. t. 27 C. f. 3.

Ins. Mascarenae (Bory in hb. W. 19861). — Ins. Mauritii (Commerson, Sieber syn. f. 140, Bojer, D'Urville, Benj. Delessert, Bouton. Ex hb. Kew. 605). — Ins. Borboniae (Ex hb. Mus. Paris. commun.). — As.

Asplenum Welwitschii Mett. msc.

Rhizoma?; petiolus 14″ longus; lamina 1½′ longa, membranacea, glabra, ovata, pinnatisecta, segmenta sessilia, 4—7″ longa, 1—1½ lata, e basi truncata oblongo-lanceolata, acuminata, pinnatipartita; laciniae ala 2‴ lata confluentes, ovatae, obtusae, leviter serratae; nervi laxi furcati; sori omnes unilaterales, costulae magis approximati quam margini.

Angola, regio Golungo Alto (Welwitsch n. 100).

Asplenum Zeyheri Pappe et Raws.

Pappe et Raws. syn. fil. cap. 18. — Asplenum polymorphum Eckl. et Zeyh. hb. — Asplenum erectum γ. Zeyheri Moore ind. 127. — Asplenum erectum var. Kze. Linn. 10. 513.

Prom. bon. spei; prope Uitenhage (Rubidge); prope Philippstown (Ecklon et Zeyher).

## 22. Ceterach W.

Ceterach aureum Dsv.

Dsv. Ann. Linn. VI. 222. Lk. in Buch. Can. Ins. 138. Webb. et Berth. phyt. III. 443. t. VII. Moore ind. 232. Bolle ztsch. f. erdk. XVII. 232. Milde bot. z. 24. 140. — Acrostichum aureum Cav. Ann. Cienc. IV. 104. — Asplenum Cav. Prael. 256. n. 633. — Asplenum latifolium Bory Ess. Fortun. 311. t. 6. — Ceterach Fée gen. 206. t. 30 A. f. 1. — Grammitis aurea Sw. syn. 23. 215. — Ceterach canariensis W. V. 137. Poir. suppl. II. 501. Klf. Enum. 86. Webb. et Berth. Hist. nat. Canar. t. 7. — Asplenum Ceterach L. v. aureum Hk. sp. III. 273. — Asplenum Teneriffae Brouss. msc.

Ins. Canarienses; ins. Teneriffa (Riedlé et Broussonet in hb. W. 19580. Bourgeau 62. 1540. Bolle alii). — Ins. Gomera. Palma. Gran Canaria. Madeira. — Am. a.?

Digitized by Google

Ceterach officinarum W.

W. enum. 1068. spec. V. 136. Dsv. Ann. Linn. VI. 222. Webb. et Berth. phyt. III. 443. Munby Cat. 35. Moore ind. 232. Tchihatcheff fl. As. min. II. 653. Bolle ztsch. f. erdk. 17. 254. — Asplenum Ceterach L. sp. pl. 1538. Desfont. fl. Atlant. II. 402. Wawra Brasil. 197. Hk. sp. III. 273 etc.

Algeria, prope Oran (Bové), prope Algeriam (Munby), prope Djelfa, prope Constantine. — Tripolis, montes Tarhôna (t. R. Br. verm. Schr. IV. 73). — Marocco, prope Tetuan (Webb). — Ins. Madeira. — Ins. Canarienses; Teneriffa, Canaria, Ferro. — Ins. Caboverdicae; ins. Fogo. — Prom. bon. spei. ? — As. E.

## 23. Hypolepis Bernh.

Hypolepis punctata Mett. msc.

Polypodium Thbg. fl. Japon. 337. Sw. Schrad. j. 1800. II. 29. 1803. II. 295. syn. 41. W. V. 208. Poir. enc. V. 535. — Phegopteris Mett. Ann. Mus. Lugd. Bat. I. 222. — Polypodium rugosulum Labill. fl. N. Holl. II. 92. t. 241. Roxb. Beats. St. Helen. 315 etc. — Phegopteris Fée gen. 243. Mett. Pheg. n. 12 etc. — Cheilanthes remota Kze. Anal. 36. — Cheilanthes dicksonioides Kze. msc. — Hypolepis Helenensis Fée gen. 147. — Phegopteris Boryana Mett. msc. Ettingh. farn. 162. t. 98. f. 2; t. 102. f. 2; t. 103. f. 4. — Cheilanthes viscosa Carm. Trans. Linn. Soc. XII. 511. — Polypodium viscidum Roxb. in Beats. St. Helen. 319. (non viscosum.) Spr. syst. IV. 61. Dsv. Ann. Linn. VI. 243. Pritch. Cat. fl. Helen. 24. Hook. fl. Antarct. 110. — Polypodium villoso-viscidum Aub. Thouars fl. Trist. d'Acunha 33. Poir. suppl. IV. 503. — Cystopteris elata Dsv. Ann. Linn. VI. 264 pt. — ? Polypodium dicksonifolium Roxb. in Beats. St. Helen. 318. Pritchard Cat. fl. Helen. 24. — Reliqua synonyma referenda sunt ad specimina locis indicis, polynesicis, australasicis, austro-americanis enata.

Ins. Fernando Po (Mann, Barter). — Ins. St. Helenae (Cuming 433, Nuttall, Petersen, Andersson). — Ins. Tristan d'Acunha (Thouars, Carmichael). — Ins. Borboniae (Bory). — As. NH. P. Am. a.

Hypolepis sparsisora.

Cheilanthes sparsisora Schrad. Gött. Anz. 1818. 918. Kze. Linn. 10. 542. — Hypolepis anthriscifolia Pr. t. 162 pt. Hk. sp. II. 66. t. 95 A. (excl. syn.) Pappe et Raws. syn. 37. Ettingh. farn. 160. t. 101. f. 4. — Cheilanthes Schldl. ad. 52. t. 32. (excl. syn.) — Cheilanthes commutata Kze. Linn. 10. 542. — Hypolepis Fée gen. 146. — Cheilanthes aspera Klf. Linn. VI. 186. Kze. Linn. 10. 544. — Hypolepis Pr.

Digitized by Google

t. 67. Hk. sp. II. 67. Pappe et Raws. syn. 38. Ettingh. farn. 160. t. 102. f. 1. 8. — Hypolepis Ekloniana Fée gen. 147. Cystopteris elata Dsv. Ann. Linn. VI. 264 pt.

Ins. Fernando Po (Mann). — Prom. bon. spei (Mundt et Maire. Zeyher hb. 4633. Ecklon n. 100. Novara Exped. n. 110); prope Kerstenbosch (Bergius); prope Gnadenthal (Breutel); prope Albany (Pappe). — Natalia (Gueinzius, Plant 369).

## 24. Phegopteris Fée. Mett.

Phegopteris angelicaefolia Mett. msc.

Polypodium angelicaefolium Schum. K. Danske Vidensk. Afh. IV. 228.

Guinea prope Aquapim (Thonning). — Ad flumen Gaboon. — Congo (Christ. Smith).

Phegopteris Aquilina Mett. in Hb. Berol.

Polypodium Aub. Thouars fl. Trist. d'Acunha 32. Carm. Linn. Trans. 12. 510. Spr. syst. IV. 61. Hk. sp. IV. 270 pt.

Ins. Tristan d'Acunha (Thouars in hb. W. 19721, Carmichael).

Phegopteris Barteriana Mett. msc.

Polypodium Hk. sp. IV. 253.

Ins. Fernando Po (Barter).

var. major Mett. msc.

Polypodium Vogelii Hk. sp. f. IV. 271. partim.

Ins. Fernando Po (Mann 352). — Aboh ad flumen Quorra (Barter 158).

Phegopteris biformis Mett. msc.

Truncus?; folia membranacea, laete viridia, supra in costis brevissime hirta, ceterum glaberrima, subdifformia; petiolus basi paleis membranaceis, ferrugineis, nitidis, ad 10‴ longis, vix $^1/_2$‴ latis, lanceolatis, longe attenuatis dense squamosus, $1^1/_4$′ longus, stramineus, cum rhachi sparse paleaceo-pilosus; lamina ad 2′ longa, oblongo-lanceolata, pinnatisecta, apice pinnatifida, segmenta numerosa, patentia, sterilia ad 7″ longa, 1″ lata, fertilia 5″ longa, $^1/_2$—$^3/_4$″ lata, linearia sensim attenuata, acuminata, subpinnatifida s. sinuato-repanda, inferiora petiolulata, basi superiore truncata, inferiore subcordata; costulae nervique manifesti; nervi anadromi utrinque 4—6, liberi, inferiores marginem non attingentes, liberi s. arcus Goniopteridis radio junctos efformantes; omnes soriferi, sori imprimis superiores costulae approximati; indusium nullum. (Mett. msc.) — Lastrea biformis Boivin msc.

Madagascaria (Goudot). — Ins. Mayotte Comorarum (Boivin 2875). — Ins. Borboniae (Boivin).

Digitized by Google

Phegopteris bivestita Mett.

Mett. Pheg. n. 57. Ettingh. farn. 165. t. 105. f. 3. — Polypodium Tausch in Sieb. fil. exs. — Lastrea Sieberiana Pr. Hb. non Tent.

**Ins. Mauritii (Sieber fl. maurit. 7. fl. mixt. 312).**

Phegopteris blepharodes Fée.

Fée mém. VIII. 89.

**Ins. Borboniae.**

Phegopteris cruciata Mett. msc.

Aspidum cruciatum W. V. 278. Spr. syst. IV. 107. Boj. h. Maur. 391. — Lastrea Pr. t. 76. Moore ind. 89. 285. — Aspidium villosum Bory msc. — Cystopteris villosa Dsv. Ann. Linn. VI. 265. —? Polypodium Aubertii Dsv. Ann. VI. 243. — Phegopteris lanata Fée gen. 246.? — Phegopteris straminea Fée gen. 246.? — Polypodium sessilifolium Hk. sp. IV. 251.

**Ins. Borboniae (Bory in hb. W. 19821, Boivin 815. 824. 873, Gaudichaud, Carmichael). — Ins. Mauritii (Bojer. Ayres in distrib. hb. Kewensis 866).**

Phegopteris cyatheaefolia Mett. msc.

Polypodium cyatheaefolium Dsv. Ann. Linn. VI. 239. — Polypodium Sieberianum Klf. in Sieb. fil. exs. Spr. syst. IV. 56. Hk. sp. IV. 235. — Phegopteris Fée gen. 243. Mett. Pheg. n. 39. Ettingh. farn. 164. t. 102. f. 9; t. 103. f. 5. — Polypodium semiorgyale W. hb.

**Ins. Mauritii (Thouars in hb. W. 19702. Sieber syn. fil. 37. Carmichael, Bouton, Boivin, Andersson).**

Phegopteris Drepanum J. Sm.

J. Sm. cat. f. cult. 16. Mett. Pheg. n. 11. Ettingh. 163. t. 106. f. 15. 16. — Aspidium Sw. Schrad. j. 1800. II. 38. syn. 54. 255. W. V. 257. Poir. suppl. IV. 517. Schk. 197. t. 43 B. Spr. syst. IV. 105. Lowe Nov. fl. mad. 6, in Hk. j. bot. I. 26. — Polypodium Lowe Nov. fl. mad. 523. Lowe f. II. 34 A. Hk. sp. IV. 249. — Polystichum Pr. t. 84.

**Ins. Madeira.**

Phegopteris elata Fée.

Fée gen. 247.

**Ins. Borboniae.**

Phegopteris Helenensis.

Gymnogramme Fée mém. VIII. 79.

**Ins. St. Helenae.**

Digitized by Google

**Phegopteris Manniana.**

Polypodium Mannianum Hook. sp. IV. 253.

Ins. Fernando Po (Mann 351).

**Phegopteris mollis.**

Polypodium Roxb. in Beats. St. Helen. 315. Pritch. cat. Helen. 24. — Polypodium Dianae Hk. spec. IV. 234. — Phegopteris deltoidea Mett. msc.

Ins. St. Helenae (Cuming 423. J. D. Hooker. Ex hb. Kew. 873).

**Phegopteris Montbrisonis Fée.**

Fée gen. 247.

Ins. Borboniae.

**Phegopteris oppositifolia.**

Polypodium oppositifolium Hk. sp. f. V. 8. Hk. fil. j. Linn. soc. VII. 235.

Ins. St. Thomae Africae occidentalis (Mann).

**Phegopteris pauciflora.**

Meniscium pauciflorum Hk. sp. V. 164.

Africa occidentalis tropica, Sierra de Crystal (Mann 1672).

**Phegopteris subsimilis Mett. msc.**

Gymnogramme subsimilis Hk. sp. V. 142. t. 293.

Ins. Fernando Po (Mann 125).

**Phegopteris tomentosa Mett. msc.**

Polypodium Bory. Bél. II. 31. — Polypodium arthrothrix Hk. sp. V. 14.

Madagascaria (Bojer, Lyall). — Ins. Mauritii (Bélanger). — Ins. Borboniae.

**Phegopteris totta Mett.**

Mett. Pheg. n. 31. Ann. Mus. Lugd. Bat. I. 223. Ettingh. farn. 165. t. 103. f. 6. Schweinf. beitr. 220. — Polypodium W. V. 201. (excl. syn.) Poir. suppl. IV. 199. — Gymnogramme Schldl. ad. 15. t. 16. Kze. Linn. 10. 495. bot. z. VI. 114. Bl. fl. javan. 39. t. 38. Hk. sp. V. 138. Hk. fil. in J. Linn. soc. VII. 235. — Grammitis Pr. t. 209. Hk. gen. t. 72. B. 7. Moore ind. syn. LXIII. Pappe et Raws. syn. 41. Thwait. Ceyl. 382. Beddom. F. S. Ind. 17. t. 49. — Leptogramme J. Sm. cat. f. cult. 15. Bot. Herald. 228. — Polypodium africanum Dsv. Ann. Linn. VI. 239. — Gymnogramme Lowei Hk. Grev. ic. t. 89. Lowe Nov. fl. mad. 8. Lowe fil. I. t. 11. Heward in Mag. nat. hist. 1838. 457.

Ins. Madeira. — Ins. Fernando Po (Mann 358). — Montes Cameroon (Mann 1375). — Prom. bon. spei (Hb. W. 19697, Mundt et Maire, Pappe, Drège, Krauss alii). — Natalia (Krauss). — Abyssinia, in monte Silke (Schimper 681). — As. Am. c.

Digitized by Google

Phegopteris triphylla.

Polypodium Dsv. Berl. Mag. V. 315. Journ. bot. IV. 260. Spr. syst. IV. 52. — Aspidium puberulum Dsv. Ann. Linn. VI. 245. — Phegopteris Mett. msc. — Phegopteris Boivini Mett. msc. Ettingh. farn. 168. t. 111. f. 4. — Aspidium subtriphyllum Hk. sp. IV. 52 pt. — Sagenia puberula Moore ind. syn. LXXXVI.

Ins. Borboniae (Boivin 894, Gaudichaud, Vieillard). — Ins. Mauritii (Telfair, Bouton). — Madagascaria (Boivin). — Ins. Comorae; ins. Mayotte (Boivin 2879); ins. Johannae (Kirk).

Phegopteris unita Mett.

Mett. Pheg. n. 42. — Gymnogramme Kze. Linn. 18. 115. — Polypodium Hk. sp. V. 5. — Goniopteris patens Fée gen. 252. — Goniopteris silvatica Pappe et Raws. syn. f. cap. 39.

Natalia (Gueinzius).

Phegopteris Vogelii.

Polypodium Vogelii Hk. sp. IV. 271 pt.

Africa occidentalis; ins. Fernando Po (Vogel 229). — Ins. St. Nicolai Caboverd. (Forbes). ?

## 25. Aspidium Sw.

Aspidium aemulum Sw.

Sw. Schrad. j. 1800. II. 42. syn. 60. 257. W. V. 283. Spr. syst. IV. 108. Mett. Aspid. n. 138. — Polypodium Ait. hort. Kew. III. 466. ed. II. V. 513. — Allantodia Dsv. Ann. Linn. VI. 265. — Lastrea Brack. expl. 200. J. Sm. cat. f. cult. 58. Moore brit. f. ed. III. 139. ind. 85. — Nephrodium Foenisecii Lowe nov. fl. mad. 7. 524. Hk. journ. bot. I. 26. — Lophodium Newm. b. f. 136. — Lastrea recurva Newm. — Lastrea concava Newm. — Aspidium dilatatum Holl. — Aspidium Hollianum Hein. — Aspidium odoratum Lowe msc. — Nephrodium spinulosum γ. aemulum Hk. sp. III. 127. brit. f. 20.

Ins. Madeira. — E.

Aspidium albopunctatum Bory W.

W. V. 242. Poir. suppl. IV. 486. Spr. IV. 102. Boj. hort. Maurit. 393. Mett. Aspid. n. 123. Ettingh. farn. 179. t. 116. f. 3. 14. — Nephrodium Dsv. Ann. Linn. VI. 255. Bory Bél. II. 61. Hk. sp. IV. 84. — Lastrea Pr. t. 77. Moore syn. LXXXIX. ind. 85. — Arthropteris J. Sm. cat. f. cult. 62. — Aspidium leucosticton Kze. Linn. 23. 301. Mett. f. h. Lips.

Digitized by Google

90. t. 18. f. 4—6. — Aspidium albopunctatum β. nigritianum Hk. f. exot. 89. — Nephrodium variolarium Dsv. Ann. Linn. VI. 255. Mett. Asp. 123 b. — Nephrodium subbiauritum Hk. sp. IV. 85. — Nephrodium Webbianum Hk. sp. IV. 85. — Aspidium Calcigenum Fée Mém. soc. sc. nat. Strasb. XVI. 38. t. 16.

var. β. Lastrea articulata Brack. expl. 191. t. 26. f. 1. — Aspidium albopunctatum v. Fijianum Hk. ex. f. 89.

var. γ. Aspidium Boutonianum Hk. ic. pl. 931. — Aspidium albopunctatum v. borbonicum Hk. ex. f. 89.

Sierra Leone (Ex hb. Kew. 734). — Ad flumen Quorra (Barter 1738). — Ins. Fernando Po (Mann 344). — Montes Cameroon (Mann 1398). — Ins. Comorae. — Madagascaria (Bojer). — Ins. Borboniae (Bory in hb. W. 19772. Boivin 880. 881. Pappe. Giraudy 12. Richard 106). — P.

## Aspidium ammifolium Dsv.

Dsv. Berl. Mag. V. 321. Ann. Linn. VI. 250. — Polypodium Poir. enc. V. 554. Sw. syn. 71. Spr. syst. IV. 61. — Phegopteris Fée gen. 243. — Aspidium stramineum Klf. Spr. IV. 105. Boj. h. Maurit. 391. Mett. Asp. n. 116. Pappe et Raws. syn. 51. — Hypopeltis Bory Bél. II. 67. — Polystichum Pr. t. 83. Moore ind. 105. — Aspidium crinulosum Dsv. Ann. Linn. VI. 249 pt. — Polystichum Sieberianum Pr. t. 83. — Aspidium vestitum Sieb. fil. exs. — Aspidium Mauritianum Kz. Hb. — Hypopeltis Bory. Bél. II. 67. — Polystichum Fée gen. 278. — Aspidium mascarense Bory.

Ins. Mauritii (Sieber syn. f. 34. fl. mixt. 286. fl. maurit. 48. Andersson). — Ins. Borboniae (Bory, D'Urville, Bréon, Richard 94, Delessert, Boivin 892. Vieillard).

## Aspidium amplum Bory. (non Mett. Polyp. H. B. K.)

Bory Bél. crypt. 62.
Observ. sec. descript. Boryi ad Aspidium inaequale pertinere videtur.

Ins. Mauritii (Bory, Thouars).

## Aspidium anomophyllum Zenk.

Zenk. pl. ind. I. t. 1. Kze. Linn. 24. 277. Mett. Asp. 75. Ettingh. farn. 191. t. 125. f. 1; t. 126. f. 1—6. — Cyrtomium caryotideum Pr. t. 86 pt. — Cyrtomium falcatum Pappe et Raws. syn. 15.

Prom. bon. spei (Wahlberg). Caffraria (Espinasse). — Natalia (Garden). — As. P.

## Aspidium aquapimense Schum.

Schum. K. Dansk Vid. Afh. IV. 229.

Guinea.

Digitized by Google

Aspidium aquilinoides Mett. msc.

Nephrodium Dsv. Ann. Linn. VI. 261. — Aspidium politum Kz. Hb. — Nephrodium scandicinum Bory.

Ins. Borboniae (Bory, Boivin 885, Richard, Pappe).

Aspidium Arbuscula W.

W. V. 233. Poir. suppl. IV. 511. Klf. en. 238. Spr. syst. IV. 98. Boj. h. Maur. 392. Mett. Asp. n. 253. Thwait. Ceyl. 391. Ettingh. farn. 185. t. 106. f. 14; t. 117. f. 1; t. 124. f. 4—6, 8, 9. — Nephrodium Dsv. Ann. Linn. VI. 253. Bory Bél. II. 60. Moore ind. LXXXVII. 86. Hk. sp. IV. 74. Beddom. F. S. Ind. 31. t. 87. — Aspidium triseriale Bory msc. — Aspidium Hookeri Wall. cat. 338. ad. p. 64. Hk. ic. pl. t. 922. — Nephrodium J. Sm. — Aspidium pubescens Wall. cat. 338. — Aspidium auriculatum Fée Mém. soc. sc. n. Strasb. XVI. 42. t. 42. f. 2.

Ins. Mauritii (Sieber syn. f. 45. fl. mixt. 289. Bojer). — Ins. Borboniae (Bory in hb. W. 19763. Pappe 196. Boivin 652. 886). — As.

Aspidium Ascensionis.

Nephrodium Hk. sp. IV. 124. t. 257.

Ins. Ascensionis.

Aspidium athamanticum Kze.

Kze. Linn. 18. 123. Mett. Asp. n. 154. — Lastrea Pappe et Raws. syn. 13. Moore ind. LXXXVIII. 86. Hk. j. bot. V. 311. — Lastrea Plantii Moore in Hk. j. bot. V. 227. — Nephrodium athamanticum Hk. sp. IV. 125. t. 258.

Angola (Welwitsch, iter angolense 194). — Prom. bon. spei, prope Macalisberg (Sanderson in distr. hb. Kew. 762). — Natalia (Gueinzius, Pappe, Plant 313).

Aspidium Barteri Mett. msc.

Rhizoma?; folia membranacea laete viridia, glaberrima; petiolus 1′ longus cum rhachi stramineus; lamina $1^1/_2$ longa, late oblonga, pinnatisecta cum impari; segmenta 3—4 juga, subopposita, distantia, patentia, ad 9″ longa, $2^1/_2$″ lata, e basi cuneata, oblonga s. elongata, longius breviusve acuminata, integerrima, infima subpetiolata, superiora sessilia s. deorsum adnata, terminalia soluta; costulae prominulae, 3—4‴ distantes, sub angulo 45° decurrentes, antrorsum curvati, maculae manifeste utrinque ad costam 12—16 seriatae, steriles subirregulariter, fertiles regulariter divisae, bisorae, rarius trisorae; sori costulis approximati, dorsum radiorum e arcubus macularum emissorum occupantes, rarius pinnulas; indusium minutum, tenerum, reniforme, rarius elongatum, unilaterale. (Mett. msc.)

Aspidium polymorphum Hk. sp. IV. 54. partim.

Africa occidentalis tropica (Barter). — Fernando Po (Mann 143).

Digitized by Google

Maculis utrinque ad costam seriebus numerosis dispositis cum Asp. Haenkei Pr. congruit, costularum directio obliqua et hinc inde apud hoc occurrit; sororum dispositio binaria, rarius trinaria in linea inter arcus macularum fere intermedia differentiam admodum gravem praebere videtur. (Mett. msc.)

Aspidium Bergianum Mett.

Mett. Asp. n. 188. — Polypodium Schldl. ad. 20. t. 9. Kz. Linn. 10. 500. Pappe et Raws. syn. 39. — Lastrea Moore ind. 86. — Nephrodium Baker msc. — Aspidium patens β. Sprengelii Kze. Linn. 10. 547. — Aspidium patens Hk. sp. IV. 95 pt.

Prom. bon. spei (Bergius, Mundt et Maire, Ecklon, Drège, Burchell cat. 5833); prope Grahamstown (Bolton in distr. hb. Kew. 743). — Natalia (Krauss).

Aspidium Boryanum W.

W. V. 285. Poir. suppl. IV. 519. Bory. Bél. II. 59. Boj. hort. Maurit. 391. Mett. in Ann. Mus. Lugd. Bat. I. 229. — Nephrodium Hk. sp. IV. 126. — Lastrea Moore ind. — Aspidium elatum Bory. msc. — Aspidium divisum Wall. cat. 393. Thwait. Ceyl. 392. — Nephrodium Hk. sp. IV. 133.

Ins. Borboniae (Bory in hb. W. 19831. Boivin 873. Carmichael). — As.

Aspidium Cameroonianum Mett. msc.

Dictyopteris Hk. sp. V. 104. — Aspidium pachysorum Mett. msc.

Montes Cameroon (Mann 1362). — Congo (Christ. Smith).

Aspidium canariense A. Braun.

A. Braun flora 1841. 708. Bolle Bonpl. III. 123. Lowe f. IV. t. 42. Bolle ztsch. f. erdk. n. f. I. 218. Mett. f. h. Lips. 93. Aspid. 348. n. 150. — Lastrea Moore ind. 87. — Aspidium elongatum W. V. 269. J. Sm. cat. f. cult. 58. Webb. et Berth. phyt. can. III. 437. t. 250. Webb. spic. gorg. 194. Schmidt fl. caboverd. 132. — Nephrodium Filix mas var. Hk. sp. IV. 116. — Polypodium Filix mas Bory. Ess. Fort. 311. — ? Aspidium oligodonton Dsv. Berl. Mag. V. 321. — Aspidium aquilinoides Bolle ztsch. f. erdk. n. f. I. 221. Bull. soc. bot. France. t. XIV. Revue p. 43.

Ins. Canarienses. Teneriffa (Bory in hb. W. 19805. Bourgeau 1549 alii). — Ins: Caboverdicae (Forbes, Bolle). — Ins. St. Thomae Africa occidentalis (Mann t. Hk. fil. in j. Linn. soc. VII. 234).

Aspidium cirrosum Schum.

Schum. K. Dansk. Ved. Afh. IV. 457. — Nephrodium crinibulbum Hk. sp. IV. 92. t. 244. Hk. f. in. j. Linn. soc. VII. 234.

Digitized by Google

Guinea (Thonning). — Montes Cameroon (Mann). — Ins. St. Thomae (Mann 1390). — Africa orientalis tropica, prope Mombas (Kersten 47).

Aspidium coadunatum Wall.

Wall. cat. 337. Hk. Grev. ic. t. 202. Spr. IV. 101. Mett. f. h. Lips. 94. t. 22. f. 3. 4. Asp. n. 280. Lowe f. VI. t. 50. Ettingh. f. 191. t. 128. f. 6. — Sagenia J. Sm. in Hk. journ. IV. 184. Moore syn. LXXXVI. t. 69. f. 1—4. Beddom F. S. Ind. 28. t. 181. — Reliqua synonyma referenda sunt ad specimina locis indicis enata.

Madagascaria (Goudot). Prope Mombas (Kersten 53). — As.

var. gemmiferum Mett. msc.

Sagenia gemmifera Fée gen. 313. Mett. Asp. n. 280 b. — Aspidium cicutarium Hk. sp. IV. 48 pt. — Nephrodium Baker msc.

Madagascaria (Pervillé). — Ins. Comorae (Boivin); ins. Johannae (Kirk). — Moramballa Montes ad flumen Zambeze (Kirk, Waller in distr. hb. Kew. 841). — Regiones aequatoriales Africae occidentalis (Curror). — Ins. Principis (Barter 1907).

Aspidium cognatum Mett.

Mett. Asp. n. 145. Ettingh. f. 174. t. 104. f. 3; t. 108. f. 5. — Lastrea Pr. epim. 40. — Nephrodium Hk. sp. IV. 124. t. 256. — Aspidium leprosum Kze. herb. — Aspidium insigne Fée. — Aspidium firmum Fée.

Ins. St. Helenae (Cuming 428. Burchell 176. Tilesius. Lady Dalhousie in distr. hb. Kew. 767. Andersson). — Ins. Ascensionis (Hb. Miquel).

Aspidium Comorense.

Nephrodium immersum Hk. sp. IV. 112 pt.

Ins. Comorae; ins. Johannae (Speke).

Observ. Specimina Comorensia ex diagnosi cl. Hookeri ab Aspidio immerso satis distincta mihi videntur.

Aspidium coriaceum Sw.

Sw. prod. 133. fl. ind. occ. 2007. syn. 57. W. V. 268. Schk. 50. t. 50. Poir. suppl. IV. 521. Klf. en. 243. Boj. h. Maur. 391. Carm. Trans. Linn. soc. 12. 511. Mett. f. h. Lips. 89. Asp. n. 121. Lowe f. VI. 36. Hk. sp. IV. 32. Ettingh. farn. 178. t. 116. f. 12; t. 117. f. 3. 7; t. 118. f. 10 etc. — Polypodium Sw. fl. ind. occ. 1688. — Tectaria Lk. h. Berol. II. 127. spec. 113. — Polystichum Schott. Pr. t. 84. Brack. expl. 206. Moore ind. syn. LXXXIV. Hk. fl. Tasm. II. 148. Pappe et Raws. syn. 15. Hypopeltis Bory Bél. II. 70. — Polypodium capense L. suppl. 445. — Aspidium W. V. 267. Lowe f. VI. t. 40. — Polystichum J. Sm. cat. f. cult. 60. — Polypodium calyptratum Aub. Thouars fl. Trist. d'Acunha 33. — Aspidium Dsv. Ann. Linn. VI. 251. — Polypodium politum Poir. enc. V. 553. Sw. syn. 72. —

Digitized by Google

Aspidium Dsv. Ann. Linn. VI. 250. — Aspidium clypeolarium Dsv. Ann. Linn. VI. 249. — Aspidium macrocarpum Bory. msc. — Reliqua synonyma referenda sunt ad specimina locis americanis, indicis, australasicis enata.

Ins. Tristan d'Acunha (Carmichael, Thouars). — Prom. bon. spei (Desfontaines in hb. W. 19803, Bergius, Krebs 358, Lalande, Burch. cat 3372, Ecklon et Zeyher alii). — Natalia (Gueinzius). — Ins. Mauritii (Sieber syn. f. 33. Wallich, Labillardière, Andersson). — Ins. Borboniae (Bory in hb. W. 19803, Vieillard). — Madagascaria. — Am. c. a. As. P. NH.

## Aspidium crenatum W.

W. V. 269. — Polypodium Forsk. fl. Aeg. arab. 185. — Microlepia Moore ind. XCIII. — Aspidium odoratum Bory. msc. W. V. 286. — Lastrea Wawra Oestr. bot. zeit. 1863. 14. — Cystopteris Dsv. Ann. Linn. VI. 264. Pr. t. 93. Webb. spic. gorg. 192. Schmidt fl. Cabov. 132. — Aspidium eriocarpum Wall. cat. 324. Mett. Asp. n. 142. Schweinf. beitr. 225. — Nephrodium Dcne. Arch. Mus. II. 185. Bolle Bonpl. III. 123. Hk. sp. IV. 141. Wawra Brasil. 199. t. 100. — Lastrea Pr. t. 77. Beddom F. S. Ind. 33. t. 95. — Aspidium fimbriatum Wall. cat. 339. — Asplenum Hk. sp. III. 234. — Nephrodium hirsutum Don. prod. Nep. 6. — Lastrea Moore ind. syn. LXXXVIII. — Hypodematium onustum Kze. flora 1833. II. 689. Anal. pter. 45. t. 28. Fée gen. 298. — Hypodematium Rüppellianum Kze. fil. I. 41. 250. t. 21. Fée gen. 298. — Aspidium pilosulum Wall. cat. 337. — Aspidium subdiaphanum Wall. cat. 343. — Microlepia mollis Fée gen. 328. — Aspidium chrysolepis Fée gen. 291.

Ins. Caboverdicae (Forbes, Miller, Vogel, J. D. Hooker, Bolle, Milne, Wawra et Maly 67). — Abyssinia; in montibus Abyssiniae (Rüppell), (Schimper un. it. 358). — Ins. Borboniae (Bory in hb. W. 19833. Boivin). — As.

## Aspidium crinitum Wall.

Wall. cat. 357. (non Lam.) — Polypodium Poir. enc. V. 528. Spr. syst. IV. 57. Hk. Grev. ic. t. 66. — Nephrodium Dsv. Ann. Linn. VI. 257. Hk. sp. IV. 110. — Phegopteris Fée gen. 243. — Lastrea Moore ind. LXXXIX. — Aspidium nitidum Bory W. V. 251. Poir. suppl. IV. 515. Ettingh. farn. 182. t. 123. f. 2. Mett. Aspid. 215 c. — Nephrodium Dsv. Ann. Linn. VI. 256. — Lastrea Pr. t. 75. — Aspidium pauciflorum Klf. Spr. syst. IV. 101. Mett. Aspid. n. 215. — Lastrea Pr. t. 75. — Aspidium sulcatum Klf. Bory Bél. II. 58. Mett. Asp. n. 216. Ettingh. farn. 181. t. 107. f. 3; t. 115. f. 5. — Lastrea Pr. t. 75. — Lastrea Sieberiana Pr. t. 75. — Polypodium thelypteroides Dsv. Berl. Mag. V. 317. Ann. Linn. VI. 240. — Polypodium phegopteroides Dsv. j. bot. IV. 264. Ann. Linn. VI. 240. Poir. suppl. IV. 505. — Aspidium



Digitized by Google

Mascarenhense Fée gen. 296. — Lastrea Moore ind. 96. — Aspidium strigosum Lowe f. VII. t. 40. — Aspidium Perrottetii Mett. msc.

Ins. Mauritii (Bory in hb. W. 19784. f. 1. Sieber syn. f. 44. 46. fl. mixt. 288. Olivier. Ex hb. Mus. Paris.) — Ins. Borboniae (Aub. Thouars in hb. W. 19784. f. 2. Ex hb. Mus. Paris. Boivin 883. Vieillard). — Madagascaria. — Ins. Comorae.

var. hispida.

Aspidium hispidum W. hb. — Polypodium fusco-setaceum Bojer msc. — Alsophila erubescens Kze. bot. z. II. 344. — Aspidium strigosum Mett. Aspid. n. 217. (non W.) — Aspidium strigosum β. molle Regel. Ind. sem. hort. Petrop. 1866. 74.?

Ins. Mauritii (Thouars in hb. W. 19704. Bory, Richard, Boivin). — Ins. Borboniae (Pappe).

## Aspidium cucullatum Bl.

Bl. en. 151. Mett. Ann. Mus. Lugd. Bat. I. 232. — Aspidium unitum Sieb. fil. exs. Mett. Asp. n. 257. Ettingh. farn. 186. t. 124. f. 2. 16. Hk. sp. f. IV. 81 pt. Thwaites Ceyl. 391. — Polypodium caudigerum Wall. cat. 298. — Nephrodium insculptum Dsv. Ann. Linn. VI. 254 pt. — Nephrodium serratum Pr. t. 81.

Ins. Mauritii (Sieber fl. maurit. 10. syn. f. 43. fl. mixt. 292. Bojer, Wallich). — Ins. Borboniae (Delessert, Boivin 889, Richard 103, Vieillard). — Madagascaria (Forbes, Lyall). — Ins. Comorae; ins. Johannae (Peters, Hutton, Speke); ins. Mohile (Kirk); ins. Mayotte (Boivin 2877). — Ins. Sechellae (Kersten n. 52). — As.

## Aspidium Currori Mett. msc.

Rhizoma?; folia membranacea, infra pilis adpressis, flavicantibus viridula, supra in costis brevi tomentella; petiolus?; lamina ampla bi-tripinnatisecto-pinnatipartita, ex axillis segmentorum superiorum prolifera; segmenta primaria infima $1\frac{1}{4}'$ longa, inaequaliter ovato-lanceolata, manifeste petiolulata, superiora sessilia oblonga; secundaria oblonga, acuminata, ultima oblonga, apice breviter attenuata, obtusa; laciniae oblongae, obtusae, subintegerrimae; nervi steriles et fertiles excurrentes; sori medii inter costulam et marginem; indusium minutum. (Mett. msc.)

Nephrodium catopterum var. minor Hk. sp. IV. 137 pt.

Africa occidentalis tropica (Curror).

## Aspidium Cyclochlamys Fée.

Fée gen. 296.

Ins. Borboniae.

Digitized by Google

### Aspidium dasychlamys Fée.

Mém. Soc. sc. n. Strasb. vol. XVI. 38. t. 41. f. 4.

Ins. Borboniae.

### Aspidium decompositum Spr.

Spr. syst. IV. 109. Mett. Aspid. n. 167.

var. quinquangularis Mett. l. c.

Aspidium quinquangulare Kze. Linn. 23. 302. — Lastrea J. Sm. cat. f. cult. 57. Moore ind. 89.

Africa australis.

### Aspidium Desvauxii Mett. msc.

Polypodium obtusilobum Dsv. Berl. Mag. V. 317. journ. bot. IV. 26. Ann. Linn. VI. 240. Poir. suppl. IV. 505. Spr. syst. IV. 57.

Madagascaria.

### Aspidium dimidiatum Mett. msc.

Rhizoma repens, ferrugineo-paleaceum, mox subdenudatum; folia distantia, membranacea, opaco-viridia, supra glaberrima, infra brevissime tomentella; petiolus 1′ longus, livido-fuscus, basi sparse paleaceus; lamina 1½′ longa, ovata, acuminata, tri-subquadripinnatisecta; segmenta primaria manifeste petiolata, ovato-lanceolata, superiora manifeste inaequilatera; secundaria e basi inferiore (lobo tertiario externo abortivo) dimidiata, superiore oblique truncata, trapezio-oblonga, acuminata, tertiaria oblique patentia, inferiora lanceolata, crenata s. serrata, superiora oblonga, obtusa; sori costae subapproximati s. medii; indusium reniforme, manifestum. (Mett. msc.)

Africa occidentalis tropica. Sierra de Crystal (Mann 1637).

Aspidio amplissimo rhachi supra glabra proximum, forma segmentorum secundi ordinis basi dimidiatorum, lobo tertiario infimo externo abbreviato s. plane abortivo insignis. (Mett. msc.)

### Aspidium elatum Mett. msc.

Nephrodium venulosum Hk. sp. IV. 71. — Aspidium abruptum Hk. sp. IV. 77 pt.

Ad flumen Gaboon (Ld. Jardin). — Ins. Fernando Po (Vogel 62. 124. Mann 140. Barter). — Ins. Principis (Barter 1924).

### Aspidium elatum Bojer.

Bojer hort. Maurit. 390.

Ins. Mauritii. Species ignota.



Digitized by Google

Aspidium elongatum Sw.

Sw. Schrad. j. 1800. II. 38. syn. 55. A. Braun. flor. 1841. 707. Lowe f. VI. t. 26. Mett. Aspid. n. 148. Bolle ztsch. f. erdk. n. f. I. 225. Ettingh. farn. 117. t. 118. f. 3. — Polypodium Ait. Hort. Kew. III. 465. — Nephrodium Hk. Grev. ic. 234. Lowe nov. fl. mad. 527. — Lastrea Pr. t. 76. — Aspidium filix mas Holl. msc. — Aspidium filix mas var. γ. Hook. sp. IV. 117. — Milde fil. europ. 124.

Madeira. — Ins. Canarienses; ins. Teneriffa (Liebetrut ex Bolle l. c.).

Aspidium falcinellum Sw.

Sw. syn. 46. 243. W. V. 233. Poir. suppl. IV. 510. Dsv. Ann. Linn. VI. 248. Lowe f. VI. t. 7. Hk. fil. exot. 53. spec. IV. 10. Lowe prim. fl. Mad. 5. Mett. Asp. 94. Ettingh. farn. 175. t. 109. f. 9; t. 111. f. 17. Milde fil. europ. 102. — Polystichum Pr. t. 83. — Polypodium auriculatum L. sp. 7881 pt. — Aspidium trapezoides Spr. hb. et syst. IV. 89 pt. — Aspidium Webbii Bory msc. in hb. Kze. — Polystichum Lonchitis Brack. explor. 203. — Asp. falc. β. subhastatum Hk. Nig. fl. 83. — Polyst. maderense Johns. Ann. nat. hist. t. 16. III. 287.

Ins. Madeira.

Aspidium filix mas Sw.

Sw. Schrad. j. 1800. II. 38. syn. 55. Mett. Asp. 129 etc. Munby cat. fl. Alg. 35. — Polypodium L. Desf. fl. atl. II. 406.

Algeria, prope La Calle. — E. As. Am. s.

var. paleaceum Mett. l. c.

Lastrea paleacea Moore. — Aspidium affine Lowe. novit. Mad. 525.

Ins. Madeira. — E. As Am. c.

var. umbilicatum.

Aspidium umbilicatum Dsv. Berl. Mag. V. 320. — Polypodium Poir. enc. V. 528. Sw. syn. 66. — Nephrodium marginale β. umbilicatum Dsv. Ann. Linn. VI. 260.

Ins. Borboniae.

Aspidium fraternum Mett. msc.

Rhizoma repens, elongatum cum basi petiolorum paleis sordide fuscis, lanceolatis, acuminatis vestitum; folia rigide membranacea, tenuia, supra glabra, infra puberula et ad costas cum rhachi brevissime tomentella; petiolus 8″—1½′ longus, rufescens vel purpurascens; lamina ½—1′ longa, cordata, basi vel deorsum bipinnatisecta; segmenta primaria infima maxima, manifeste petiolata, inaequaliter ovato-lanceolata, basi pinnatisecta, superiora oblonga, acuminata, ses-

Digitized by Google

silia vel adnata, pinnatipartita; secundaria sessilia e basi oblique truncata, latiore oblonga, acuminata, lateris inferioris adaucta, pinnatipartita; laciniae oblongae, obtusae, subintegerrimae, superiores in apicem latum, crenatum, denique sinuatum confluentes; nervi translucentes, indivisi, furcati s. trifurcati, ramis infimis raro anastomosantibus, ad marginem excurrentibus vel intra marginem desinentibus, dorso soriferis; sori ad costam laciniarum vel lacinularum uniseriati, minuti, costulis vix approximati; indusium reniforme, minutum, contractum, persistens, glabrum. (Mett. msc.)

Aspidium speciosum Mett. olim. — Aspidium subquinquefidum var. $\beta$. Hk. sp. IV. 130.

Sierra Leone (Barter). — Sierra de Crystal (Mann 1635). — Ins. Fernando Po (Vogel 121). — Madagascaria (Boivin).

Proximum Asp. protenso Afz. Sw., a quo vero differt laciniis superioribus in laciniam latam sinuatam, denique subintegram confluentibus. (Mett. msc.)

## Aspidium frondosum Lowe.

Lowe nov. fl. Mad. 6. Johnson in Hk. j. IX. 163. Lowe f. VI. t. 43. Mett. Asp. n. 156. Hk. sp. IV. 31. Ettingh. farn. 174. t. 118 f. 2. Milde fil. europ. 143. — Polypodium Soland. msc. in hb. Banks. — Polystichum J. Sm. cat. f. cult. 60. — Aspidium Webbianum A. Br. flora 1841. 711. Ind. Sem. hort. Berol. 1851. Kze. Linn. 23. 294. — Nephrodium laetevirens Lowe msc.

Ins. Madeira.

## Aspidium frondulosum Fée.

Fée Mém. soc. sc. n. Strasb. XVI. 40.

Ins. Borboniae.

## Aspidium funestum Kze.

Kze. Linn. IX. 96. Mett. Aspid. n. 169. Griseb. fl. brit. Westind. 690. — Aspidium cicutarium W. V. 215 pt. Kze. flora 1839. beibl. I. 33. Kl. Linn. 20. 371. — Aspidium atratum Bory. msc.

Ins. Nossi-beh ad Madagascariam (Boivin 1954 bis). — Am. c. a.

## Aspidium Gaboonense.

Polypodium tenerifrons Hk. sp. V. 104 pt.

Africa occidentalis, ad flumen Gaboon (Mann). Observ. Specimina a cl. Mann coll. satis diversa sunt ab spec. indicis prope Moulmain a Parish collectis.

## Aspidium glabratum Mett. msc.

Rhizoma?; folia membranacea, tenerrima, mox glaberrima; petiolus?; rhachis straminea; lamina bipinnatisecto-bipinnatipartita; segmenta primaria manifeste petiolata, ad 1½ longa,

Digitized by Google

oblonga, acuminata, secundaria subsessilia laxe disposita, patentissima, ad 4" longa, lanceolato-oblonga s. oblonga, acuminata; laciniae ala 1/8''' lata confluentes, oblongae s. elongatae, obtusae; lobi semioblongi, obliqui, nervum furcatum excipientes; sori costae laciniarum approximati; indusium reniforme, minutum. (Mett. msc.)

Nephrodium catopterum β. glabrum Hk. sp. IV. 137 pt.

Ins. Fernando Po (Mann).

Aspidium grande Fée.

Fée gen. 295.

Ins. Borboniae.

Aspidium Grunowii Bolle.

Bolle Bonpl. III. 123. Mett. Asp. n. 246 d. Milde fil. europ. 113. — Nephrodium Moore ind. 93.

Ins. Caboverdicae; ins. St. Jacobi (A. Grunow).

Aspidium Gueinzianum Mett.

Mett. Aspid. n. 201. — Lastrea Moore ind. 93. Pappe et Raws. syn. 12. — Aspidium patens Kze. Linn. 10. 547. — Aspidium natalense Fée mém. VIII. 102.

Prom. bon. spei (Lalande, Mundt et Maire). — Natalia (Gueinzius). — Ins. Borboniae.

Aspidium heteropteron Mett. msc.

Nephrodium Dsv. Ann. Linn. VI. 256. — Polypodium stipulaceum Kz. hb. — Aspidium Mett. Aspid. n. 198. — Phegopteris scalpturata Fée gen. 245. — Phegopteris Pervilleana Fée. — Lastrea stipulacea Moore ind. 105.

Ins. Borboniae (Bory, Richard 717). — Madagascaria.

Aspidium hirtum Sw.

Sw. syn. 56. fl. ind.-occ. 2007. W. V. 226. Mett. Asp. n. 271. Nephrodium Hk. sp. IV. 128 etc.

Africa occidentalis, regiones aequatoriales (Curror). — Am. c.

Aspidium inaequale Schldl.

Schldl. adumbr. 23. t. 12. Spr. IV. 104. Kze. Linn. 10. 549. Mett. Aspid. n. 151. — Lastrea Pr. t. 77. Pappe et Raws. syn. 12. Moore ind. 94. — Nephrodium Hk. sp. IV. 125. Hk. fil. journ. Linn. Soc. VII. 234. — Aspidium inaequale β. montanum Kze. l. c.

Ins. Fernando Po. — Ins. St. Thomas (Mann). — Montes Cameroon (Mann 2053. 1369). — Prom. bon. spei (Bergius, Krebs 359, Drège, Mundt et Maire, Ecklon et Zeyher, Burchell 5854). — Natalia (Gueinzius). — Montes Moramballa ad flumen Zambesi (Kirk). — Ins. Comorae, ins. Angasilia (Kersten 44. 45). — Ins. Mauritii (Bojer).

Digitized by Google

## Aspidium inquinans.

Nephrodium inquinans Fée Mém. soc. sc. nat. Strasb. vol. XVI. 43. t. 44. f. 1.

Ins. Borboniae (De Hell.).

## Aspidium Kilmense.

Cf. supra pag. 24.

In monte Kilimandjaro (Kersten n. 46).

## Aspidium lanigerum Herb. Hawn.

Rhizoma repens, elongatum paleis membranaceis, ovato-lanceolatis pallide, sordide rufescentibus, denique deciduis squamosum; folia membranacea supra opaco-viridia, in nervis parce setulosa, infra pallidiora densius hirsutula; petiolus 4½″ longus sordide subrufescente stramineus, basi paleis paucis obsitus, superne cum rhachi eiusque ramificationibus dense pilis articulatis, pallide rufescentibus tomentellus; lamina 6″ longa, deltoidea, bipinnatisecta, basi subtripinnatisecta; segmenta primaria oblique suberecto-patentia, infima petiolata, inaequaliter ovata, acuminata, superiora basi attenuata, adnata, ovato-lanceolata, pinnatipartita, secundaria lateris inferioris adaucta, sed sensim decrescentia vel oblonga, laciniaeve superiorum oblique patentes, ala angustissima confluentes, e basi inaequali cuneata, superiore latiore magis truncata, oblonga vel subovato-oblonga, obtusa; nervi pauci, furcati, subimmersi, supra prominuli sori costulae laciniarum vel segmentorum secundi ordinis approximati; indusium amplum, planum, membranaceum, rufescens, glabrum. (Mett. msc.)

Congo (Christiern Smith).

Ab Aspidio funesto directione segmentorum laciniarumque, pubescentia, divisione sorisque costae approximatis diversum. (Mett. msc.)

## Aspidium lanuginosum W. hb.

Klf. enum. 244. Spr. IV. 108. Boj. h. Maurit. 391. Mett. Aspid. n. 274 b. — Nephrodium Dsv. Ann. Linn. VI. 262. — Lastrea Moore ind. 87. — Aspidium odoratum Sieber syn. f. Mett. Aspid. n. 273. — Lastrea Pr. t. 77. — Aspidium catopterum Kze. Linn. 10. 550. Hk. sp. IV. 137 pt. — Lastrea Pappe et Raws. syn. 12. — Nephrodium elatum Dsv. Ann. Linn. VI. 262.

Prom. bon. spei (Drège, Bowie, Burchell cat. 5436). — Natalia (Gueinzius). — Ins. Mauritii (Thouars in hb. W. 19808. Sieber syn. f. 48. Ex hb. Kew. 775).

Digitized by Google

Aspidium leuconeuron.

Nephrodium leuconeuron Fée gen. 306. t. 18 C. f. 3. Mett. Aspid. n. 259 b.

Ins. Borboniae.

Aspidium lobatum Sw.

Sw. Schrad. j. 1800. II. 37. syn. 53. Mett. Aspid. n. 108.

var. angulare Mett.

Mett. f. h. Lips. 88. Aspid. n. 108.

Algeria. — Madeira. — Ins. Canarienses. — Ins. Fernando Po (Mann). — Montes Cameroon (Mann). — Prom. bon. spei (Breutel). — Ins. Comorae; ins. Angasilia (Kersten 42. 43). — Abyssinia, in monte Silke (Schimper 680); prope Demerk montium Simensium (Schimper n. 244); prope Gaffat (Steudner). — E. As.

Aspidium luctuosum Kze.

Kze. Linn. 10. 548. Mett. Aspid. n. 119. — Polystichum Moore ind. 95. Pappe et Raws. syn. 14.

Prom. bon. spei (Ecklon, Zeyher, Atherstone, Espinasse).

Aspidium madagascariense Fée.

Fée gen. 296. — Lastrea Moore ind. 96.

Madagascaria. An species propria?

Aspidium malgassicum.

Goniopteris madagascariensis Fée gen. 250. 251. mém. VIII. 128.

Madagascaria (Goudot).

Aspidium mauritianum.

Nephrodium Fée gen. 305. 308.

Ins. Mauritii.

Aspidium microcarpum.

Polypodium Willemet hb. Maurit. 63. Sw. Schrad. j. 1800. II. 44. syn. 71.

Ins. Mauritii.

Aspidium microsorum.

Nephrodium microcarpum Fée gen. 305. 307.

Ins. Borboniae.

Aspidium molle Sw.

Sw. Schrad. j. 1800. II. 34. 1803. II. 280. syn. 49. W. V. 246. Poir. suppl. IV. 514. Spr. syst. IV. 101. Boj. h. Maur. 392. Webb. et Berth. phyt. III. 437. Webb. spic. gorg. 194. Lowe f. VI. t. 30. Seubert flor. azor. 16. Schmidt fl. caboverd. 132. Mett. fil. h. Lips. 91. Aspid. n. 246. Ann. sc. nat. sér.

IV. t. XV. 76. Ann. Mus. Lugd. Bat. I. 234. Ettingh. farn. 188. t. 123. f. 4. 6. 7; t. 124. f. 1. Hk. Hdb. fl. Nov. Zeal. 377. Thwait. Ceyl. 391. Benth. fl. Hongk. 455. Bolle ztsch. f. erdk. n. f. I. 223. Griseb. fl. brit. Westind. 693. Schweinf. beitr. 225. Milde fil. eur. 111. — Nephrodium R. Br. prod. 5. Poir. suppl. IV. 87. Schott. gen. fil. Bory Bél. II. 61. Hk. gen. 48 B. spec. IV. 67. Brack. expl. 186. Beddom. F. S. Ind. 29. t. 84. Wawra Brasil. 198. — Polypodium Jacq. coll. III. 188. ic. pl. rar. 640. Lam. enc. V. 536. — Aspidium discoideum Hornem. msc. — Aspidium violascens Bolle Bonpl. III. 123. — Aspidium patens Schldl. ad. 22. Pappe et Raws. syn. 12. Moore in Hk. j. bot. V. 227. — A. molle v. cristata. (Ex Sierra Leone.)

Algeria (Bové). — Madeira. — Ins. Canarienses. — Ins. Caboverdicae (Forbes, Schmidt, Bolle). — Sierra Leone (Barter, Mann, Vogel). — Prom. bon. spei (Bergius, Mundt et Maire, Ecklon et Zeyher, Drège alii). — Natalia (Plant). — Ins. Borboniae (Pappe. Ex herb. Mus. Paris). — Ins. Mauritii (Sieber syn. f. 49. fl. mixt. 290). — Ad flumen Zambeze (Kirk). — Prope Mombas (Kersten n. 50). — Abyssinia (Schimper). — Ins. St. Helenae? — Am. c. a. As. P. NH.

var. violascens Mett. msc.

Aspidium violascens Lk. spec. 101. Mett. f. h. Lips. 91. Aspid. n. 247. — Aspidium propinquum Hort. — Aspidium deversum Kze. Linn. 23. 299 pt. — Aspidium Hilsenbergii Pr. t. 81. — Aspidium pulchrum Dsv. Ann. Linn. VI. 256.

Senegambia (Leprieur). — Africa occidentalis tropica. ?Mitsche (Barter 571). Napo (Barter 1444). Quorra (Vogel 61. 185). Fernando Po (Vogel 106).? — Natalia (Gueinzius). — Ins. Mauritii (P. Ayres). — Ins. Comorae, ins. Angasilia (Kersten 51).

## Aspidium montanum Aschs.

Aschs. fl. prov. Brandenb. 922. — Polypodium Vogler. Dissert. (1781.) — Aspidium Oreopteris Sw. syn. 50 etc.

Ins. Madeira (Mason). — E.

## Aspidium Napoleonis Fée.

Fée gen. 292. Mett. Aspid. n. 144. — Nephrodium Bory Bél. II. 61. t. 6. Hk. sp. IV. 123. t. 255. — Lastrea Pr. t. 77. Moore ind. 97. — Aspidium Petersenii Kze. msc. — Aspidium riparium Roxb. in Beats. St. Helen. 298. Wall. cat. 362.

Ins. St. Helenae (Cuming 434, J. Smith, Petersen, Wallich, Bélanger, Burchell 172, J. D. Hooker, Harvey, Perrottet, Haughton, Andersson).

## Aspidium nigrescens Mett. msc.

Rhizoma?; folia membranacea, nigrescenti-viridia, supra in costis ferrugineo-tomentella, ternato-bipinnatisecto-pinnatifida; petiolus ad $1^1/_2{}'$ longus, denique infuscatus, nitidus;

Digitized by Google

lamina late deltoidea, segmenta primaria plurijuga, e basi versus apicem decrescentia, secundaria ovato-lanceolata; costulae leviter flexuosae, maculae Sageniae, costales appendicibus 2—3, ceterae irregulariter subtriseriatae appendice una instructae s. appendicibus destitutae; sori omnes ad angulos s. in dorso arcuum macularum costalium s. dorsales, inter costulas biseriati s. inaequaliter triseriati, minuti; indusium nullum. (Mett. msc.)

Aspidium melanocaulon Hk. sp. IV. 53 pt.

**Ins.** Fernando Po (Barter 142). — Ad flumen Gaboon (Mann).

## Aspidium Nigritianum Mett. msc.

Rhizoma?; folia tenuiter chartacea, supra in rhachi costisque breviter ac dense ferrugineo-tomentella, infra glaberrima; petiolus una cum rhachi stramineus, nitidus; lamina 2′ longa, deltoideo-ovata, subtripinnatisecta, ex axillis segmentorum superiorum prolifera; segmenta primaria subopposita, patentissima, oblonga, acuminata, secundaria pleraque decurrenti adnata, infima petiolulata, ovata s. oblongo-lanceolata, ultima oblonga, obtusa, leviter crenata s. subpinnatifida; nervi furcati s. indivisi, fertiles abbreviati; sori margini approximati. (Mett. msc.)

Nephrodium catopterum γ. minus Hk. sp. IV. 137 pt.

**Ins.** Principis (Barter 1906).

Rhachi infra glaberrima ab Asp. opposito Klf. diversum.

## Aspidium oppositum Klf.

Klf. in Sieber fil. exs. Spr. syst. IV. 108. Mett. Aspid. n. 274 d. Pappe et Raws. syn. 51. Ettingh. farn. 180. t. 120. f. 6. 7. 9. 10. — Lastrea Pr. t. 77. Moore ind. 98. — Nephrodium Hk. sp. IV. 136. t. 266. — Aspidium triangulare Hk. msc.

**Ins.** Mauritii (Sieber syn. f. 36). — **Ins.** Borboniae (Ex herb. Mus. Paris). — Madagascaria (Boivin). — Prom. bon. spei (t. Sprengel). ?

var. subglandulosa Mett. hb.

Aspidium subglandulosum Mett. in hb. Berol. — Phegopteris Helliana Fée gen. 247. — Phegopteris straminea Fée in hb. Mougeot.

**Ins.** Borboniae (Boivin 814, Pappe, Gaudichaud).

## Aspidium pedicularis.

Polypodium pedicularis Willemet hb. Maurit. 62. Sw. Schrad. j. 1800. II. 44. syn. 67.

**Ins.** Mauritii.

Digitized by Google

**Aspidium pentagonum.**

Lastrea pentagona Moore in Hk. j. bot. V. 227. Mett. Asp. 167 e. Pappe et Raws. syn. 13.

Natalia (Plant 325).

**Aspidium Pica Dsv.**

Dsv. Berl. Mag. V. 319. Tausch. flora 1839. 476. Kl. Berl. Gartenz. 1856. 159. Mett. Asp. n. 288. Ann. Lugd. Bat. I. 238. Hk. sp. IV. 46. — Polypodium L. suppl. 446. Poir. enc. V. 515. Sw. Schrad. j. 1803. II. 278. — Bathmium ebeneum Fée gen. 288. — Aspidium J. Sm. cat. 52. — Aspidium trifoliatum Sw. syn. 43 pt. W. V. 214 pt. Bojer hort. Maur. 392. Wall. cat. 2236. — Aspidium politum Hort. pt. — Sagenia Pica Moore ind. 96. — Nephrodium Baker msc.

Ins. Mauritii (Sieber syn. fil. 40. Bojer, Ayres, Carmichael). — Ins. Borboniae (Bory, Commerson, Boivin). — Madagascaria (Limminghe). — P.

**Aspidium pinnatifido-serratum Mett. msc.**

Rhizoma?; folia membranacea, supra siccitate opaca fusco-viridia, infra pilis glandulosis, viscidula et ad costas paleis rufescentibus, lanceolato-subulatis squamosa; petiolus 10″ longus; lamina 1½ longa, ovata, acuta, pinnatisecto-pinnatipartita, pinnatifida; segmenta primaria 6—7″ longa, inferiora petiolata; laciniae numerosae, patentissimae, 1½—2″ longae, elongatae, breviter acuminatae, inferiores abbreviatae, subintegrae, mediae, adnatae, pinnatifidae; nervi laxi, indivisi, furcati s. loborum trifurcati s. subbipinnati, sori distantes; indusium minutum. (Mett. msc.)

Nephrodium Hook. hb.

Angola, Golungo Alto (Welwitsch 123).

**Aspidium Plantianum.**

Nephrodium Pappe et Raws. syn. 14.

Natalia (Plant 341).

**Aspidium procerum Bojer.**

Ins. Borboniae (Boivin 888, Richard, Vieillard).

**Aspidium protensum Afzelius.**

Afzel. sec. Sw. in Schrad. j. 1800. II. 36. syn. 51. — Lastrea Moore ind. 105. — Aspidium subquinquefidum Pal. Beauv. fl. d'Oware I. 34. t. 19. Sw. syn. 71. W. V. 214. Poir. suppl. IV. 507. Spr. syst. IV. 96. Mett. Aspid. 169 b. — Lastrea Pr. t. 76. — Nephrodium Hk. sp. IV. 130. — Polypodium pubescens Schum. K. Danske Ved. Afh. IV. 227. — Lastrea pilosissima J. Sm. msc. — Aspidium variabile Hk. sp. IV. 140 pt. — Aspidium Schumacheri Mett. olim.

Digitized by Google

Senegambia (Brunner, Leprieur). — Sierra Leone (Afzelius, Vogel). — Regnum Owariense (Beauvois in hb. W. 19733). — Ad flumen Gaboon (Mann). — Ins. Fernando Po (Vogel 713, Mann 172. Ex hb. Kew. 769).

Aspidium pteroides Sw.

Sw. Schrad. j. 1800. II. 33. syn. 47. adn. 67. W. V. 240. Spr. syst. IV. 103. Mett. Aspid. n. 243 b. Ann. Mus. Lugd. Bat. I. 231. — Reliqua synonyma referenda sunt ad floram indicam.

Ins. Borboniae (Gaudichaud). — As. P.

Aspidium pulchellum.

Polypodium Willemet herb. Maur. 62. Sw. Schrad. j. 1800. II. 44. syn. 73.

Ins. Mauritii.

Aspidium pulchrum Bory.

Bory W. V. 253. Mett. Asp. n. 215 b. — Lastrea Pr. t. 75.

Ins. Borboniae (Bory in hb. W. 19787).

Aspidium pungens Klf.

Klf. en. 242. Spr. syst. IV. 106. Lk. h. Berol. II. 124. Schldl. adumbr. 21. t. 10. Mett. f. h. Lips. 89. Lowe f. VI. t. 8. Mett. Aspid. n. 115. — Polystichum Pappe et Raws. syn. 14. Pr. t. 83. — Aspidium Thunbergianum Schldl. msc. — Aspidium capense Dsv. Ann. Linn. VI. 250. — Polystichum angulare Moore in Hk. j. bot. V. 227. Pappe et Raws. syn. 15. — ?Polypodium aculeatum Thbg. prod. 172. flor. cap. 735.

Prom. bon. spei (Bergius, Krebs 360, Ecklon et Zeyher. Novar. Expedit. n. 126. Burchell cat. 5200. 5819). — Natalia (Gueinzius, Plant 328).

Aspidium rigidum Sw.

Sw. Schrad. j. 1800. II. 37. Mett. Aspid. n. 134.
var. australis Ten. Tenore act. inst. d. Napoli V. 144. t. 2. f. 4. B. — Aspidium pallidum Lk. Milde bot. z. 15. 477. — Nephrodium Bory. Explor. scient. d. Mor. 287. t. 36. Dcne. Arch. d. Mus. II. 186. Tchihatcheff fl. As. min. II. 656. Cosson et Kralik. Sertulum Tunetanum 61. — Aspidium névadense Boiss. — Aspidium affine Rb. Vis. fl. dalm. I. 39. — Aspidium rigidum var. pallidum Ettingh. farn. 117. t. 113. f. 3. 5; t. 115. f. 6.

Tunes. Djebel Zaghouan (Kralik 343). — Algeria, prope Elmack (Bory 670). — E. As.

Aspidium riparium Bory.

Bory W. V. 251. Poir. suppl. IV. 514. — Lastrea Pr. t. 75. Moore ind. 102. — Nephrodium Dsv. Ann. Linn. VI. 256. — Aspidium strigosum W. sp. V. 249. Poir. suppl. IV. 251.

Digitized by Google

— Nephrodium Dsv. Ann. Linn. VI. 256. — Lastrea Pr. t. 75. — Polypodium tomentosum Aub. Thouars fl. Trist. d'Ac. 32. t. 3. Spr. syst. IV. 59. — Nephrodium Dsv. Ann. Linn. VI. 256. — Lastrea Moore ind. 86. — Aspidium bifidum Carm. Trans. Linn. soc. 12. 511. — Nephrodium conterminum var. Thouarsianum Hk. sp. IV. 91. — Aspidium thelypteroides Mett. Asp. n. 194. (excl. syn.) — Nephrodium Hk. sp. IV. 95. — Phegopteris Fée gen. 243. — Aspidium Boivini Mett. in Herb. Berol. — Polypodium hirticaule Dsv. herb. — Aspidium trunculatum W. hb. non spec.

Ins. Mauritii (Sieber syn. f. 50. Ex hb. Mus. Paris. Bory in hb. W. 19778). — Ins. Borboniae (Bory in hb. W. 19782. Boivin 887. Ex herb. Mus. Paris. Armange. Richard). — Ins. Tristan d'Acunha (Thouars in hb. W. 19703. Carmichael).

Aspidium rotundatum Herb. Vahl.

Hornem. animadvers. Havn. 1819. 8.

Sierra Leone.

Aspidium Schimperianum Hochst. msc.

A. Braun flora 1841. 708. Mett. Aspid. n. 149. Schweinf. beitr. 225. Milde fil. europ. 143.

Abyssinia, in monte Scholoda (Schimper 6); prope Abbena, montes Simenses (Schimper); in regione Bogos, montes Mensa (Kretschmer). (Steudner).

Aspidium Schizolobium.

Polystichum Schizolobium Fée mém. VIII. 99.

Ins. Mascarenae.

Aspidium securidiforme Mett. msc.

Rhizoma?; folia membranacea, opaco-viridia, glaberrima: petiolus elongatus, denique purpurascens rhacheos brevissimae tomentellae; lamina deltoidea s. quinquangulari-cordata, ternata s. quinato-pinnatisecta; brachia lateralia terminali breviora; segmenta numerosa, approximata, sessilia, patentia, 1—2″ longa, e basi inferiore cuneata, superiore truncata, rotundata s. auriculata, trapezio-oblonga, breviter acuta s. obtusa, integerrima, sinuata, rarius inferiora pinnatisecta; nervi manifesti; sori costae approximati, utrinque ad costam uniseriati, rarius pluriseriati; indusium minutum, glabrum, fugax. (Mett. msc.)

Aspidium subquinquefidum γ. securidiforme Hk. sp. IV. 130.

Sierra Leone. — Ins. Fernando Po (Barter 2042). — Regiones aequatoriales Africae occidentalis (Curror).

Forma segmentorum secundi ordinis et indumento in rhachi breviore ac densiore ab A. protenso Afz. Sw. recedens.

Digitized by Google

Aspidium serratum.

Amblya serrata Fée mém. soc. sc. nat. Strasb. XVI. 35. t. 40. f. 2.

Ins. St. Helenae.

Aspidium speciosum Mett. msc.

Rhizoma repens, subelongatum; folia membranacea, supra sparse, infra densius ac brevissime pilis articulatis pubescentia; petiolus 1¼′ longus, basi tomentellus paleisque flaccidis, fuscis laxe obsitus, rufescens; rhachis superne tomentella; lamina 1¼′ longa, deltoidea, quinquangulari-ovata, basi quadripinnatisecta; segmenta primaria manifeste petiolata, infima maxima, opposita, inaequaliter ovata, acuminata; superiora et secundaria inaequaliter oblonga, acuminata vel lanceolata, sessilia vel decurrentia, secundaria basalia lateris inferioris segmentorum infimorum adaucta, ovata, manifeste petiolata, superiorum plerumque abbreviata, lateris superioris adaucta, ultima oblique patentia, basi inferiore cuneata, decurrente adnata, superiore oblique truncata, auriculata, trapezio-ovato-oblonga, obtusa, latere inferiore incisa, superiore pinnatifida, nervis furcatis vel pinnatis; sori dorsales costulae laciniarum ultimarum vel margini approximati, mediocres; indusium manifestum, persistens, rufescens, glabrum. (Mett. msc.)

Ettingh. farn. 180. t. 106. f. 12; t. 109. f. 10; t. 110. f. 8.

Ins. Nossi-beh (Boivin). — Madagascaria (Limminghe).

Aspidium spinulosum Sw.

Sw. Schrad. j. 1800. II. 38 etc. Mett. Aspid. n. 136. Hk. sp. IV. 127. Pappe et Raws. syn. fil. Afric. austr. 13.

Prom. bon. spei, prope Swellendam (Drège ex Pappe l. c.). — E. As. Am. s.

var. dilatatum (Sw.).

Ins. Borboniae (Herb. Godet). — E. Am. s. As.

Aspidium squamisetum.

Nephrodium Hk. sp. IV. 140. t. 268. — Aspidium subdentatum Mett. msc.

Ins. Fernando Po (Mann). — In monte Kilimandjaro (Kersten 48). — Ins. Borboniae (Boivin).

Aspidium Thelypteris Sw.

Sw. Schrad. j. 1800. II. 40. 1803. II. 280. syn. 57 etc. Mett. Aspid. n. 267. Munby. Cat. 35. — Polypodium L. sp. 7897. Desfont. fl. atl. II. 406.

Algeria, prope La Calle (Le Franc). — E. As. Am. s.

β. squamuligerum Schldl. adumbr. 23. t. 11. Mett. fil. h. Lips. 92. Aspid. n. 267. Hk. Hbd. fl. N. Zeal. 377. —

Digitized by Google

Aspidium squamulosum Klf. hb. — Aspidium Drègei Fée gen. 292. — Lastrea squamulosa Pr. t. 76. — Nephrodium Hk. fl. N. Zeal. II. 39. — Polypodium invisum Forst. prod. 81. n. 443. — Aspidium rivulorum Thbg. ex Eckl. fil. exs. — Aspidium squamigerum Fée mém. VIII. 104. — Polypodium Natalense Pr. hb. — Lastrea Thelypteris Pappe et Raws. syn. 12. — Aspidium Kze. Linn. 10. 547.

Prom. bon. spei (Sieber syn. fil. 1. 2. fl. mixt. 260. Krebs, Mundt et Maire, Burchell cat. 4419, Ecklon et Zeyher). — Natalia. — N. Zeal.

Aspidium Thonningii Schum.

Schum. K. Dansk. Ved. Afh. IV. 229 s. Beskriv. Guin. plant. 455.

Africa occidentalis tropica, prope Aquapim (Thonning).

Aspidium truncatum Gaud.

Gaud. Freyc. 332. t. 10. Mett. Aspid. n. 254. Ann. Mus. Lugd. Bat. I. 234. Lowe fil. VII. t. 12.? Ettingh. 185. t. 124. f. 13—15. — Polypodium Poir. enc. V. 534. Dsv. Ann. Linn. VI. 239. — Polystichum Gaud. Freyc. 322. — Nephrodium Pr. t. 81. — Nephrodium prismaticum Dsv. Ann. Linn. VI. 256. — Aspidium caudiculatum Sieb. fil. exs. Kze. Linn. 24. 280. Mett. Aspid. n. 250. Ettingh. farn. 188. t. 125. f. 3. 4. 6; t. 126. f. 8. — Nephrodium Pr. t. 81. epim. 46. — Aspidium mascarenense Klf. Spr. syst. IV. 101. — Reliqua synonyma referenda sunt ad specimina locis indicis enata.

Ins. Mauritii (Sieber syn. f. 47). — Ins. Borboniae. — Madagascaria. — As.

Aspidium unitum Mett.

Mett. Ann. Mus. Lugd. Bat. I. 230. Milde fil. europ. 112.

var. glabra Mett. l. c.

Aspidium Ecklonii Kze. Linn. 10. 546. Mett. Aspid. n. 240. Ettingh. farn. 185. t. 125. f. 5. — Nephrodium Pr. epim. 49. Pappe et Raws. syn. 14. — Aspidium striatum Schum. K. Dansk. Vid. Afh. IV. 230. s. Beskr. Guin. Plant. 456. — Nephrodium insculptum Dsv. Ann. Linn. VI. 254 pt. — Aspidium venulosum Dsv. Ann. Linn. VI. 255. Mett. Aspid. n. 253 e. — Polypodium pallidivenium Hk. spec. V. 8. — Reliqua synonyma ad floram asiaticam s. americanam pertinent.

Guinea, prope Aquapim (Thonning), ad flumen Bagroo (Mann 909). — Niger (Barter 1070). — Prom. bon. spei (Drège, Ecklon et Zeyher). — Natalia (Gueinzius, Krauss, Plant). — Ins. Nossi-beh (Boivin). — Ins. Borboniae (Gaudichaud. Ex herb. Mus. Paris). — Ins. Mauritii. — Am. c. a. As. P.

var. hirsuta Mett. Ann. Mus. Lugd. Bat. I. 231. — Aspidium unitum Sw. Schrad. j. 1800. II. 32. syn. 47 etc. Munby. Cat. 35. — Polypodium L. Desfont. fl. atlant. II. 407. —

Digitized by Google

Aspidium propinquum Sw. Adnot. bot. 47. Mett. Asp. n. 242. Ettingh. farn. 186. t. 124. f. 3; t. 125. f. 13. Schweinfurth. beitr. 225. — Nephrodium R. Br. prod. 148. Pr. t. 81. Thoms. in Speke journ. 654. Bory Dupp. voy. 269.

Algeria, prope La Calle (Bové). — Senegambia (Requien, Leprieur, Ld. Jardin). — Ins. Fernando Po (Vogel). — Angola (Welwitsch. iter angolense 111. 114). — Regio Madi ad Leuconilum (Grant). — In monte Kilimandjaro (Kersten 49). — Ad flumen Luabo et Zambeze (Kirk). — Ins. Comorae. — Madagascaria. — Ins. Mauritii (Andersson, Lesson). — Ins. Diego Garcia (Bouton). — As. P. Am. c. a.

Aspidium Vogelii Hook.

Hook. ic. pl. 921. Mett. Aspid. 359. n. 178. — Nephrodium Hk. sp. IV. 131. — Lastrea Moore ind. 108.

Ins. Fernando Po (Vogel 41).

## 26. Cystopteris Bernh.

Cystopteris fragilis Bernh.

Bernh. Schrad. n. j. I. II. 26. 49. t. 2. f. 9 etc. Moore ind. 280. Bolle ztsch. f. Erdk. n. f. I. 227. Schweinf. beitr. 225. Munby cat. 35. Pappe et Raws. syn. 16. Milde fil. eur. 147. — Aspidium canariense W. hb. — Cystopteris canariensis Pr. t. 93. — Aspidium membranaceum hb. Willd. — Polypodium diaphanum Bory it. I. 328. W. V. 205. Sw. syn. 39. Spr. syst. IV. 59. — Dicksonia humilis W. hb. — Microlepia humilis Pr. t. 125. — Davallia humilis Hk. sp. I. 185. — Cystopteris abyssinica Fée gen. 300. — Aspidium viridulum Desv. Berl. Mag. V. 321. — Cystopteris viridula Dsv. Ann. Linn. VI. 264. — Cystopteris fragilis v. sempervirens Moore ind. 282. — Cystopteris fragilis v. dentata Hk. sp. I. 198. Moore ind. 281. Wawra Brasil. 191.

Algeria. Blidah, Tiaret. — Madeira. — Ins. Canarienses. — Ins. Caboverdicae, ins. Fogo. — Prom. bon. spei, prope Bedford (Atherstone), in montibus ad flumen Kat (Ecklon et Zeyher, Hutton). — Ins. Borboniae (Bory in hb. W. 19713). — Ins. Mauritii (Thouars in hb. W. 20164). — Abyssinia, in monte Bachit prope Demerk (Schimper 1237). — E. As. Am. s. c. a. P. NH.

## 27. Oleandra Cav.

Oleandra articulata Pr.

Pr. t. 78. Kze. bot. zeit. IX. 347. Pappe et Raws. syn. 13. Ettingh. farn. 194. t. 133. f. 8. Moore ind. syn. LXXXIX. — Polypodium Lam. enc. V. 514. — Aspidium Sw. syn. 42. 236 pt. W. V. 212. Kze. Linn. 18. 123. Dsv. Ann. Linn.

Digitized by Google

VI. 244. — Oleandra distenta Kze. bot. z. IX. 347. — Oleandra densifrons Kze. bot. z. IX. 347. — Oleandra Thouarsiana Pr. hb. — Oleandra neriiformis Hk. sp. IV. 156 pt.

Ins. Fernando Po (Mann, Barter). — Ins. Principis (Barter 1928). — Prom. bon. spei, prope Macalisberg (Zeyher, Burke 530). — Natalia (Gueinzius). — Ins. Borboniae (Bory in hb. W. 19731. f. 2. Boivin 882. Ex herb. Mus. Paris. Vieillard). — Ins. Mauritii (Ventenat in hb. W. 19731. f. 1. Sieber syn. f. 32. fl. mixt. 319. Ayres. Bojer. Ex hb. Mus. Paris). — Ins. Sechellae (Pervillé 73).

Oleandra nodosa Pr.

Pr. t. 78. Kz. bot. z. IX. 345. Lowe f. VII. 17. Moore ind. syn. LXXXIX. Hk. sp. IV. 157. Ettingh. farn. 193. t. 129. f. 4. — Synonyma ad floram americanam pertinent.

Ins. Fernando Po (Mann, Barter). — Am. c. a.

## 28. Diacalpe Bl.

Diacalpe Madagascariensis Fée.

Fée gen. 339. Moore syn. C. ind. 309.

Insula Nossi-beh ad Madagascariam (Pervillé). — Species dubia.

## 29. Polypodium L.

Polypodium Africanum Mett.

Mett. Polyp. n. 268. t. III. f. 11—12. Hk. sp. V. 45. — Niphobolus Kze. Linn. 10. 501. fil. I. 67. t. 33. Pappe et Raws. syn. 41. Moore in Hk. j. bot. V. 225. Moore ind. syn. LXXVI. — Gyrosorium Pr. ep. 140.

Prom. bon. spei (Drège, d'Urban). — Natalia (Plant 309). — ? Montes Cameroon (Mann) t. Hk.

Polypodium altum Boj.

Bojer Hort. Maurit. 417.

Ins. Mauritii.

Polypodium argyratum Bory.

Bory W. V. 175. Poir. suppl. IV. 493. Bory Bél. II. 29. Mett. Polyp. n. 70. Hk. sp. IV. 198. — Marginaria Bory Dict. d'hist. nat. t. X. — Polypodium argyrophanes Spr. syst. IV. 51. Bojer h. Maur. 418. — Polypodium leucosorum Bojer h. Maur. 417. Hk. ic. pl. t. 942. spec. IV. 198.

Ins. Borboniae (Bory in hb. W. 19660, Carmichael, Boivin 821, Vieillard).



Digitized by Google

var. comptoniaefolia Mett. msc.

Polypodium comptoniaefolium Dsv. Berl. Mag. V. 316. — Polypodium comptonioides Dsv. Ann. Linn. VI. 231. — Polypodium leucosorum Hook. ic. plant. t. 943.

Ins. Mauritii (Bojer. Ayres. Ex herb. Mus. Paris). — Ins. Borboniae (Boivin).

Polypodium asplenifolium L.

L. sp. 7863. Sw. Schrad. j. 1800. II. 23. Plum. t. 88. Spr. syst. IV. 50. Mett. Polyp. n. 68. Ann. sc. nat. sér. V. t. II. 252. Ettingh. farn. 32. t. 21. f. 10. 12. 13. 14. Etc.

Ins. Fernando Po (Mann 337). — Am. c. a.

var. minor Mett. msc.

Polypodium elasticum Bory W. V. 183. Poir. suppl. IV. 494. Mett. Polyp. n. 44. Ann. sc. nat. sér. V. t. II. 249. — Polypodium Leveillianum Dsv. Ann. Linn. VI. 232. — Polypodium flexile Fée mém. VI. 9. t. 2. f. 3. — Polypodium asplenifolium Boj. h. Maurit. 418.

Ins. Mauritii (Sieber syn. f. 54. fl. mixt. 291. Bojer). — Ins. Borboniae (Bory in hb. W. 19675). — Am. c. a.

Polypodium australe Mett.

Mett. Polyp. n. 15. Hk. sp. IV. 167. Hk. Hdb. fl. N. Zeal. 380. Ettingh. farn. 34. t. 22. f. 1. — Grammitis R. Br. prod. 146. Homb. et Jacq. voy. Pol. Sud. 80. t. 2. fig. G. Hook. fil. fl. antarct. III. 393. Flor. N. Zeal. II. 44 pt. Flor. Tasm. II. 151. Carm. Trans. Linn. Soc. 12. 510. — Polypodium Poeppigianum Mett. Polyp. n. 17. Hk. sp. IV. 168.

Ins. Tristan d'Acunha (Carmichael). — Prom. bon. spei. (Poeppig.) — NH. P. Am. a.

Polypodium Beaumontii Leperv.

Lepervanche in sched. herb. Paris.

Ins. Borboniae (Vieillard).

Polypodium Boivini Mett. msc.

Rhizoma abbreviatum, paleis minutis, rufulis squamosum; folia densa, coriacea, glabra, brevipetiolata, 1½" longa, 1½—2‴ lata, linearia, fere ad costam pinnatipartita; laciniae oblique patentes, oblongae s. ovatae, rotundato-obtusae, nervum furcatum excipientes, superiores soriferae; sori in basi interna laciniarum superiorum sub apice ramuli antici inserti. (Mett. msc.)

Madagascaria (Boivin).

Polypodium coriaceum.

Goniophlebium Fée Mém. soc. sc. nat. Strasb. XVI. 33.

Ins. Borboniae (Bory).

Digitized by Google

**Polypodium dubium.**

(Nipholobus). — Acrostichum Poir. suppl. I. 120.

Ins. Borboniae.

**Polypodium ensiforme Thbg.**

Thbg. prod. 172. flor. cap. 735. Sw. Schrad. j. 1800. II. 22. syn. 31. Schldl. ad. I. 19. Spr. syst. IV. 52. Dsv. Ann. Linn. VI. 234. W. V. 165. Kze. Linn. 10. 500. fil. I. 117. t. 54. Mett. Polyp. n. 106. Hk. spec. V. 23. — Marginaria Pr. t. 188. Pappe et Raws. syn. 39. — Goniophlebium Fée gen. 255. t. 21 B. 2. Moore ind. 389. — Phlebodium J. Sm. in Hk. j. bot. IV. 59. — Chrysopteris obtusa Fée.

Prom. bon. spei (Thunberg, Mundt et Maire, Ecklon et Zeyher, Drège, Burch. cat. 4839). — Natalia (Krauss 299).

**Polypodium incanum Sw.**

Sw. Schrad. j. 1800. II. 25. fl. Ind. III. 1645. 2004. syn. 35. W. V. 174. Poir. suppl. IV. 484. Kth. syn. 74. Schk. fil. 188. Meyer. fl. Esseq. 288. Kze. Linn. 9. 41. Liebm. Mex. Bregn. 60. Spr. syst. IV. 51. Lowe f. I. t. 48 A. Moore in Hk. j. bot. V. 225. Mett. Pol. n. 100 pt. Ann. sc. nat. sér. V. t. II. 254. Hk. sp. IV. 208. Griseb. fl. brit. Westind. 699. Ettingh. farn. 39. t. 13. f. 2; t. 21. f. 5. 8. — Marginaria minima Bory crypt. 264. t. 31. 2. — Polypodium squalidum Arrab. fl. flum. XI. 76. — Polypodium Ecklonii Kze. Linn. 10. 499. Pappe et Raws. syn. 39. Mett. Pol. n. 99. Hk. sp. IV. 209.

Prom. bon. spei (Drège, Ecklon et Zeyher, Pappe, Krauss, Sanderson, Breutel). — Natalia (Gueinzius, Plant 317). — Montes Moramballa ad flumen Zambeze (Kirk). — Am. s. c. a.

**Polypodium integerrimum Nor.**

Noronha prod. phytol. in Aub. Thouars. Mél. et Voy.

Madagascaria.

**Polypodium Irvingii.**

Polypodium glaucophyllum Hk. sp. V. 18. var. β.

Africa occidentalis. Abeokuta (Irving 41).

**Polypodium laciniatum Nor.**

Noronha prod. phyt. in Aub. Thouars. Mélang. et Voy.

Madagascaria.

**Polypodium lanceolatum L.**

L. sp. 7852. — Plum. t. 137. — Sw. Schrad. j. 1800. II. 19. syn. 26. W. V. 153. Poir. enc. V. 509. illustr. t. 866. f. 1. Kth. syn. 71. Poir. suppl. IV. 484. Griseb. fl. brit. Westind. 702.



Digitized by Google

Mett. Polyp. n. 155 b. — Pleopeltis Pr. t. 193. Klf. enum. 245. Hk. gen. t. 59. — Phlebodium Moore in Hk. j. bot. V. 225. — Polypodium lepidotum W. hb. Schldl. ad. 17. t. 8. Linn. V. 606. Kze. Linn. 10. 497; 18. 311; 21. 213. Liebm. Mex. Bregn. 32. Sturm. fl. chil. 12. Mett. Polyp. n. 155. t. III. f. 16. Ann. sc. nat. sér. V. t. II. 259. Hk. sp. V. 56. Ettingh. farn. 47. t. 29. f. 2; t. 30. f. 9. — Pleopeltis Pr. t. 193. Pappe et Raws. syn. 40. Beddome F. S. Ind. 60. t. 181. Moore syn. ind. LXXVII. — Polypodium macrocarpum Bory msc. W. V. 147. Poir. suppl. IV. 488. Kze. Linn. 13. 132. Roxb. in Beats. St. Helen. 318. Antomarch. flor. Helen. 262. Pritch. cat. fl. Helen. 24. — Phlebodium J. Sm. j. bot. IV. 59. — Pleopeltis Klf. en. 245. Spr. IV. 109. — Pleopeltis Helenae Pr. t. 193. — Drynaria compacta Fée gen. 270. — Polypodium marginiferum Bory msc. in hb. W. — Polypodium marginale W. V. 149. Poir. suppl. IV. 488. — Pleopeltis Klf. en. 246. Spr. syst. IV. 109. Boj. h. Maur. 389. — Pleopeltis ensifolia Carm. Linn. Trans. 12. 510. Hk. exot. fil. t. 62. Spr. syst. IV. 109. — Reliqua synonyma referenda sunt ad specimina locis americanis enata.

Ins. St. Helenae (Cuming 431, Hb. Lichtenstein 14, De Blandowick, Andersson, J. D. Hooker, Seemann). — Ins. Tristan d'Acunha (Carmichael). — Sierra Leone (Barter). — Montes Cameroon (Barter). — Prom. bon. spei (P. Thouars in hb. W. 19612, Bergius, Ecklon et Zeyher, Mundt et Maire, Krebs, Drège). — Natalia (Plant 316). — In monte Kilimandjaro (Kersten n. 54). — Montes Moramballa ad flumen Zambeze (Kirk, Waller). — Ins. Comorae; ins. Angasilia (Kersten n. 55). — Ins. Borboniae (Bory in hb. W. 19629. 30). — Ins. Mauritii. — Abyssinia, prope Lötho (Schimper), prope Adesulam (Schimper). — As. Am. c. a.

## Polypodium lineare Thbg.

Thbg. fl. jap. 335. ic. pl. jap. dec. II. t. 19. Sw. Schrad. j. 1800. II. 20. syn. 27. W. sp. V. 163. Poir. enc. V. 512. Kze. bot. z. VI. 505. Spr. syst. IV. 48. Don. prod. Nepal. 1. Mett. Ann. Mus. Lugd. Bat. II. 224. — Polypodium Gueinzii Mett. Polyp. n. 161. t. III. f. 18. 19. — Reliqua synonyma ad floram asiaticam pertinent.

Natalia (Gueinzius). — As. P.

## Polypodium Loxogramme Mett.

Mett. Polyp. n. 216. t. III. f. 25. Ann. Mus. Lugd. Bat. II. 226. Schweinf. beitr. 220. — Grammitis lanceolata Sw. Schrad. j. 1800. II. 18. syn. 22. 213. t. 1. f. 4. W. V. 139. Poir. suppl. II. 823. Spr. syst. IV. 41. Hk. Grev. ic. t. 43. Thwait. Ceyl. 382. — Selliguea Fée gen. 177. — Gymnogramme Hk. sp. V. 156. — Grammitis elongata Bory msc. — Grammitis coriacea Klf. Spr. syst. IV. 41. Boj. h. Maur. 415. Kze. bot. z. IV. 420; VI. 496. — Taenitis simplicifolia

Digitized by Google

Bojer msc. — Reliqua synonyma ad floram indicam et polynesicam pertinent.

Sierra Leone, Brass. (Barter). — Montes Cameroon (Mann 1381). — Ins. Fernando Po (Mann 373). — Ins. Comorae; ins. Angasilia (Kersten 61). — Ins. Mauritii (Desfont. in hb. W. 19585. Sieb. syn. f. 67). — Ins. Borboniae (Bory, Merat, Commerson, Gaudichaud, Boivin 806, Garnier). — Abyssinia, prope Gaffat (Steudner). — As. P.

## Polypodium lycopodioides L.

L. sp. 7853. Poir. enc. V. 509. Sw. Schrad. j. 1800. II. 19. syn. 25. Plum. t. 119. W. V. 150. Lk. h. Berol. II. 87. Spr. syst. IV. 47. Boj. h. Maur. 416. Kze. Linn. 13. 132. Mett. fil. h. Lips. 36. t. 25. f. 4. Polyp. n. 174. Ann. sc. nat. sér. V. t. II. 259. Lowe f. VI. 26. Hk. sp. V. 34. Griseb. fl. brit. Westind. 702. Ettingh. farn. 50. t. 33. f. 4; t. 35. f. 1. 2. 6. 7. — Phlebodium J. Sm. bot. Mag. 72. Misc. 12. — Pleopeltis Pr. t. 193. Pappe et Raws. syn. 40. Bot. Herald. 231. — Anapeltis J. Sm. cat. f. cult. 5. — Polypodium Mauritianum W. V. 150. Poir. suppl. IV. 488. — Polypodium diversifolium W. hb. — Marginaria Pr. t. 188. Mett. Polyp. n. 169 b. — Polypodium owariense Dsv. Berl. Mag. V. 314. journ. bot. VI. 258. Poir. suppl. IV. 503. Lowe f. II. t. 62. Spr. syst. IV. 46. Mett. Polyp. 171 b. — Goniophlebium Lodd. cat. 1849. Moore ind. 394. — Polypodium ligustrifolium Dsv. Ann. Linn. VI. 225. — Goniophlebium Moore ind. 392. — Polypodium lagopodioides Dsv. Berl. Mag. V. 313. journ. IV. 259. t. 40. Bojer hort. Maurit. 416. Mett. Polyp. n. 174 b. — Craspedaria Fée gen. 264. — Craspedaria borbonica Fée Mém. soc. sc. nat. Strasb. XVI. 34. t. 39. f. 2.

Sierra Leone (Afzelius). Brass. (Barter 9. 1815). Ad flumen Niger (Vogel). Ad flumen Gabun (Jolis). — Ins. Fernando Po (Mann 375, Barter 1448. 1736). — Natalia (Gueinzius). — Ins. Nossi-beh (Boivin 1949). — Madagascaria (Thouars in hb. W. 19605). — Ins. Borboniae (Bory in hb. W. 19609. f. 3). — Ins. Mauritii (Bory in hb. W. 19606). — Am. c. a.

## Polypodium marginellum Sw.

Sw. prod. 130. fl. Ind. occ. 1631. Lam. enc. V. 511. Mett. fil. h. Lips. 31. Polyp. n. 10. Hk. sp. IV. 164. Kuhn. Oestr. bot. z. 1866. 69. Milde fil. europ. 15. — Grammitis Sw. Schrad. j. 1800. II. 17. fl. Ind. occ. 2002. syn. 22. W. V. 139. Schk. 8. t. 7. Poir. suppl. II. 283. Antomarch. fl. Helen. 261. Griseb. fl. brit. Westind. 703. Roxb. in Beats. St. Helen. 310. Pritch. cat. 16. Moore ind. syn. LXIII. — Mecosorus Kl. Linn. 20. 405. — Grammitis linearis Bory. Coquill. 257. L. v. Buch. physik. beschr. 138. 179. Guill. Arch. I. 482. — Grammitis graminoides Lk. msc. — Grammitis quaerenda Bolle ztschr. f. erdk. XIV. 324.

Ins. Teneriffa (L. v. Buch). — Ins. St. Helenae (D'Urville, J. D. Hooker, Burchell 185, Andersson). — Guinea (Mortensen). — Am. c. a. P.

Digitized by Google

Polypodium moniliforme Lag.

Lagasca ex Sw. syn. 33.

var. major. Mett. Ann. sc. nat. sér. V. t. II. 250.

Polypodium rigescens Bory W. V. 183. Poir. suppl. IV. 494 Spr. syst. IV. 50. Hk. Grev. ic. t. 216. Bojer. h. Maurit. 417. Mett. Polyp. n. 29 b.

Ins. Fernando Po (Mann 361). — Ins. Borboniae (Bory in hb. W. 19668. Boivin). — Am. a.

Polypodium multifidum Bory.

Bory it. II. 193. t. 20. f. 2. 3. Sw. syn. 27. W. V. 163. Poir. suppl. IV. 491. Kze. fil. 90. t. 43. f. 1. Mett. Polyp. n. 8. Hk. sp. IV. 174. — Polypodium furcatum Dsv. Ann. Linn. VI. 230. — Pleopeltis angusta Bojer hort. Maur. 389.

Ins. Borboniae (Bory in hb. W. 19626). — Ins. Mauritii (Boivin).

Polypodium obtusum.

Grammitis W. hb. Klf. en. 84. Spr. syst. IV. 41. Boj. h. Maur. 414.

Ins. Mauritii (Thouars in hb. W. 19595). — Ins. Nossi-beh (Pervillé 769).

Polypodium Pappei Mett. msc.

Rhizoma repens, crassitiem pennae anserinae adaequans, paleis 2‴ longis, membranaceis, ferrugineo-fuscis, ovatis, acuminatis squamosum, denique denudatum, viride; folia herbacea, firma, glaberrima; petiolus 1—3″ longus, lamina 1′ longa, 2¼″ lata, lanceolata, utrinque inaequaliter acuminata, integerrima; maculae manifestae, costales amplae appendice dichotoma, externae 2—4 seriatae; sori plerumque in angulo externo macularum costalium, rarius et secundus in arcu macularum paracostalium, superficiales; paraphyses nullae. (Mett. msc.)

Pleopeltis concinna Pappe msc. — Polypodium loriforme Hk. sp. V. 57 pt.

Prom. bon. spei. Caffraria (Rawson). — Natalia (Sanderson).

Polypodium parvulum Bory.

Bory msc. in W. V. 182. Poir. suppl. IV. 494. Spr. syst. IV. 50. Bory Bél. II. 29. Boj. h. Maurit. 418. Mett. Polyp. n. 34. Hk. sp. IV. 184. t. 274 B. — Polypodium rigescens Bory in hb. Kze.

Ins. Borboniae (Bory in hb. W. 19667, Pappe, Gaudichaud). — Ins. Mauritii (Sieber syn. fil. 52, Carmichael, Boivin. Ex herb. Mus. Paris. commun.).

Polypodium Pervilléi Mett. msc.

Rhizoma elongatum, tenerum, paleis rigidulis, fuscis, oblongo-lanceolatis squamosum; folia 2—3‴ distantia, 6—8⁗ longa,

Digitized by Google

sub apice 1''' lata, spathulata, subcoriacea, glaberrima, basi attenuata, subpetiolata, obtusa; nervi immersi, indivisi, superiores soriferi; sori terminales, pauci sub apice laminae; sporangia inermia; paraphyses nullae. (Mett. msc.)

Ins. Sechellae (Pervillé).

Rhizomate elongato, glabritie laminae ab P. pygmaeo, quod et nervis indivisis et soris terminalibus congruit, diversissimum. (Mett. msc.)

## Polypodium Phymatodes L.

L. sp. 7860. — Burm. thes. zeyl. 196. t. 86. Breyn. cent. pl. 98. fig. med. et dextr. — Jacq. coll. V. 132. ic. pl. rar. 637. Sw. Schrad. j. 1800. II. 22. syn. 31. Bory it. II. 135. W. V. 167. Schk. t. 8 d. 9. 17. Lam. enc. V. 515. Roxb. crypt. pl. 22. Spr. syst. IV. 49. Dsv. Ann. Linn. VI. 234. Bory Duperr. 261. Bél. II. 27. Kze. fil. I. t. 44 a. Boj. h. Maurit. 417. Rich. fl. N. Zeal. 66 pt. Blanco fl. Filipin. 827. Zolling. flora 1847. I. 317. A. Cunn. Lond. j. I. 121. Mett. f. h. Lips. 36. t. 25. t. 10—16. Pol. n. 195. Lowe fil. I. t. 25. Thwaites Ceyl. 395. Mett. Ann. sc. nat. sér. IV. t. XV. 78. Thoms. in Speke journ. 654. Hk. sp. V. 82. Ettingh. farn. 49. t. 31. f. 4; t. 35. f. 9. — Phymatodes vulgaris Pr. t. 196. Pappe et Raws. syn. f. 40. — Drynaria J. Sm. journ. bot. III. 397. Hk. fil. j. Linn. soc. IV. 22. — Polypodium Madagascariense Dsv. Ann. Linn. VI. 227. Mett. Polyp. n. 155 d.

Ins. Fernando Po (Vogel 41, Barter, Mann). — Ins. Principis (Barter). — Angola (Welwitsch, iter angolense n. 9). — Prom. bon. spei (Drège). — Natalia (Gueinzius, Plant). — Ad flumen Zambeze (Kirk). — Mozambique (Meller). — Ins. Zanzibar (Roscher 22, Speke). — Prope Mombas (Kersten 60). — Ins. Sechellae (Kersten 57); ins. Mahé (Krapf?). — Ins. Mauritii (Sieber syn. f. 42. D'Urville, Andersson). — Ins. Borboniae (Bory in hb. W. 19630. Boivin 818. Ex hb. Mus. Paris). — Madagascaria (Chapelier). — Ins. Nossi-beh (Kersten 58). — Ins. Comorae; ins. Angasiliae (Kersten 59); ins. Johannae (Peters). — As. P.

## Polypodium planiusculum Mett. msc.

var. minor Mett.

Polypodium trichomanoides β. jungermannioides Hk. sp. IV. 178.

Ins. Ascensionis (J. D. Hooker, Hannemann).

## Polypodium pubescens Schum.

Schum. Beskr. Guin. plant. 453.

Guinea, prope Aquapim (Thonning).

## Polypodium punctatum Sw.

Sw. Schrad. j. 1800. II. 21. — Acrostichum L. sp. 7769.

Digitized by Google

Lam. enc. I. 34. Poir. suppl. I. 27. — Polypodium irioides Lam. enc. V. 513. W. V. 160. Sw. syn. 28. Spr. syst. IV. 48. Boj. h. Maur. 416. Bory Bél. II. 27. Bl. fl. jav. 169. t. 77. Hk. Grev. ic. t. 125. Kze. bot. z. VI. 116. Mett. f. h. Lips. 38. t. 20. 7. Pol. n. 235. Ann. Mus. Lugd. Bat. II. 229. Ann. sc. nat. sér. IV. vol. XV. 78. Lowe f. I. t. 42 A. Hk. fil. exot. 4. spec. V. 67. Thwait. Ceyl. 395. — Phymatodes Pr. t. 198. Pappe et Raws. syn. 40. Bot. Herald. 425. — ?Polypodium crassinerve Schum. K. Dansk. Ved. Afh. IV. 227. — Reliqua synonyma ad specimina locis asiaticis s. polynesicis referenda sunt.

Guinea, prope Aquapim (Thonning). — Angola (Welwitsch, iter angolense 25. 99). — Natalia (Gueinzius, Sanderson). — Ad flumen Zambeze (Kirk). — Ins. Comorae. — Madagascaria (Lyall). — Ins. Mauritii (Sieber syn. f. 31. 38; fl. mixt. 287. Andersson). — Ins. Fernando Po (Barter). — Liberia (Vogel). — Regiones aequatoriales Africae occident. (Curror). — As. P.

Polypodium pygmaeum Buchinger Herb.

Rhizoma abbreviatum, caespitosum; folia densa, membranacea, glabra, 6—8‴ longa, spathulata, obtusa, basi attenuata, subpetiolata, integerrima; costa flexuosa; nervi indivisi, angulo acuto ascendentes, apice leviter incrassato, sorum vix superantes; sori utrinque ad apicem costulae 1—2, elliptici, rotundati, costulae approximati; paraphyses nullae; sporangia inermia. (Mett. msc.) — (Grammitis).

Ins. Borboniae.

Polypodium Schimperianum Mett. msc.

Rhizoma repens, elongatum, paleis membranaceis, pallide rufescentibus 2—2½‴ longis, ovato-lanceolatis, acuminatis subintegerrimis vel integerrimis, imbricatis, subpatentibus vestitum; folia coriacea, firma, supra sparse, infra densissime pilis stellatis, candidis, denique rufescentibus tomentosa, supra denique glabra, sessilia 2—5″ longa, 3—5‴ lata, spathulato-lanceolata, obtusa vel acuminata, costa supra manifesta, infra tomento obtecta; costulae immersae; maculae immersae, appendiculatae; sori in apice appendicum. (Mett. msc.)

Schweinf. beitr. 303. — Niphobolus Buchinger Herb.

Abyssinia (Schimper 1441). — Angola (Welwitsch; iter angolense 152).

Paleis rhizomatis ab P. africano diversum.

Polypodium Schraderi Mett.

Mett. Polyp. n. 179. t. II. f. 11. Hk. sp. V. 59. Milde fil. europ. 16 pt. — Polypodium elongatum Schrad. Gött. gel. Anz. 1818. 915. Schldl. ad. 16. t. 7. Kze. Linn. 10. 499. Spr. syst. IV. 47. — Phymatodes Pappe et Raws. syn. f. cap. 41.

Digitized by Google

Prom. bon. spei (Mundt et Maire, Ecklon, Hesse, Drège, Atherstone, Bolton in distr. hb. Kew. 989 pt.). — Natalia (M'Ken 174).

## Polypodium scutifrons Boj.

Boj. Hort. Maurit. 417.

Ins. Mauritii.

## Polypodium serrulatum Mett.

Mett. f. h. Lips. 30. Polyp. n. 4. Hk. sp. IV. 174. Mett. Ann. sc. nat. sér. V. t. II. 249. Ettingh. farn. 31. t. 20. f. 4—8, 11—16, 18. Wawra Brasil. 202. — Xiphopteris Klf. en. 85. Spr. syst. IV. 43. Boj. h. Maur. 415. Kze. Linn. 9. 36. Bot. Herald. 227. Fée mém. III. 36. gen. t. 10 B. Lowe f. IX. 42. Hk. gen. 44. Griseb. fl. brit. Westind. 703. Moore ind. syn. XXVIII. t. XIV B. — Grammitis Sw. fl. ind. occ. 2002 etc. — Micropteris orientalis Dsv. Ann. Linn. VI. 217. — Reliqua synonyma ad floram americanam pertinent.

Africa occidentalis tropica (Curror, Barter). — Madagascaria (Boivin, Meller). — Ins. Mauritii (Hb. Willd. 19589. f. 2. Bouton). — Ins. Borboniae. — Am. c. a. P.

## Polypodium sesquipedale Wall.

Wall. cat. n. 275. Mett. Polyp. n. 162. — Polypodium phlebodes Kze. in coll. Schimp. Mett. Polyp. n. 163. Schweinf. beitr. 220. — Drynaria Fée gen. 270. — Polypodium Scolopendrium Don. prod. fl. nepal. 1. — Pleopeltis excavata Moore in hb. Hk. et Thoms. — Phymatodes J. Sm. bot. Herald 425. ? — Polypodium loriforme Hk. sp. V. 57 pt.

Angola (Welwitsch, iter angolense 104). — Ins. Fernando Po. — Abyssinia, prope Gessgessa (Schimper 1364); prope Amba Sea (Schimper 1560). — As.

## Polypodium simplex Sw.

Sw. Schrad. j. 1800. II. 19. syn. 27. 123. W. V. 154. Spr. syst. IV. 47. Dsv. Ann. Linn. VI. 228. Boj. h. Maur. 416. — Polypodium lanceolatum Lam. ill. t. 866. f. 1. — Polypodium excavatum Bory W. V. 158. Spr. syst. IV. 47. Dsv. Ann. Linn. VI. 228. Boj. h. Maurit. 416. — Drynaria Fée gen. 270. — Polypodium loriforme Hk. sp. V. 57 pt.

Ins. Fernando Po (Mann 449. 378) — Ins. St. Thomae (Mann). — Ins. Comorae; ins. Angasilia (Kersten 56). — Ins. Borboniae (Bory in hb. W. 19619. Boivin 817, Gaudichaud, Richard 83). — Ins. Mauritii.

## Polypodium sparsiflorum Hook.

Hook. sp. fil. V. 93.

Africa occidentalis tropica; Sierra del Crystal (Mann 1634).

## Polypodium spissum Bory.

Bory W. V. 146. Poir. suppl. IV. 488. Mett. Polyp. n. 253. Hk. sp. V. 48. — Niphobolus Klf. en. 126. Pr. epim. 128.

Digitized by Google

Spr. syst. IV. 44. Bory Bél. II. 26. Boj. h. Maur. 415. — Cyclophorus Dsv. Berl. Mag. V. 301. Ann. Linn. VI. 224. — Candollea Mirbel. Buff. hist. nat. V. 87. — Cyclophorus heterophyllus Dsv. Berl. Mag. V. 301. j. bot. III. 20. Ann. Linn. VI. 224. — Niphobolus Spr. syst. IV. 44. Pr. epim. 129. — Candollea Mirbel. in Buff. hist. nat. V. 87. — Reliqua synonyma ad floram indicam pertinent.

Ins. Borboniae (Bory in hb. W. 19627. f. 1. Commerson, Boivin 822). — Ins. Sechellae. — Africa (loco accuratius non indicato, Palisot de Beauvois in hb. W. 19627. f. 2). — As.

Polypodium villosissimum Hook.

Hk. sp. IV. 197. Hook. fil. in. j. Linn. soc. VII. 236.

Sierra Leone, mons Sugar-loaf (Barter). — Ins. St. Thomae (Mann). — Ins. Fernando Po (Mann).

Polypodium vulgare L.

L. sp. 7865. Bory Ess. Fortun. 311. Desfont. fl. Atl. II. 405. W. V. 172. Kze. Linn. 10. 499. Mett. Polyp. n. 81. Pappe et Raws. syn. 39. Munby. Cat. 35. Hk. sp. IV. 205. Bolle ztsch. f. erdk. n. f. I. 229. Milde fil. eur. 18 etc. — Polypodium serratum W. hb. — Polypodium vulgare var. serrata W. V. 173. var. cambrica W. V. 173. — Polypodium cambricum Desv. Berl. Mag. V. 315. — Polypodium Teneriffae Fée. — P. australe Fée gen. 236. t. 20 A. 2.

Algeria. — Madeira. — Ins. Canarienses. — Prom. bon. spei (Krebs 357, Ecklon et Zeyher, Burchell 7415). — Natalia (Plant 311). — E. As. Am. s.

Polypodium Willdenowii Bory.

Bory Ann. sc. nat. sér. I. t. V. 468. t. 13. Bory Bél. II. 34. Mett. Polyp. n. 238. Ann. Mus. Lugd. Bat. II. 229. Hk. sp. V. 97. — Drynaria Moore ind. 348. — Polypodium elegans Cav. ex Sieb. fl. maurit. — Polypodium Thouarsii W. herb. — Phymatodes Pr. t. 198. Polyp. n. 238 b.

Ins. Fernando Po (Barter 1921. Mann 399. t. Moore l. c.). — Ins. Borboniae (Gaudichaud. Ex herb. Mus. Paris). — Ins. Mauritii (Sieber syn. fil. 172. fl. maur. suppl. 6. Wallich, Ayres). — Ins. Comorae (Boivin). — As.

## 30. Nephrolepis Schott.

Nephrolepis abrupta Mett.

Mett. fil. h. Lips. 99. — Dicksonia Bory it. II. 187. t. 30. Bél. II. 75. Sw. syn. 138. W. V. 481. Poir. suppl. II. 474. Dsv. prod. 316. Spr. syst. IV. 121. Hk. sp. I. 72. Moore ind. 310. Kze. bot. z. III. 800. — Leptopleuria Pr. t. 137. t. 5. f. 9—11. Fée gen 342. Hk. gen. t. 60 B.

Digitized by Google

Ins. Borboniae (Bory in hb. W. 20149. Gaudichaud. Carmichael. Ex herb. Mus. Paris). — Madagascaria (Pervillé 725).

## Nephrolepis biserrata Schott.

Schott. gen. Ettingh. farn. 204. t. 134. f. 10; t. 135. f. 14. 15. — Aspidium Sw. Schrad. j. 1800. II. 32. syn. 46. 242. Schk. 34. t. 33. W. V. 231. Poir. suppl. IV. 510. Spr. syst. IV. 98. Boj. h. Maur. 390. — Nephrodium Pr. Rel. Haenk. I. 31. Gaud. Freyc. 338. Dsv. Ann. Linn. VI. 253. — Lepidoneuron Fée gen. 301. — Hypopeltis Bory Bél. II. 65. — Aspidium acutum Sw. syn. 46. W. V. 221. Poir. suppl. IV. 508. Schk. 32. t. 31 A. — Nephrodium Dsv. Ann. Linn. VI. 253. Pr. Rel. Haenk. I. 31. — Nephrolepis Pr. t. 79. Hk. sp. IV. 153 pt. — Aspidium splendens W. V. 220. Bl. en. 147. Spr. syst. IV. 100. — Nephrodium Gaud. Freyc. 357. Dsv. Ann. Linn. VI. 253. Bory Duperr. 268. Boj. h. Maur. 392. — Nephrolepis Pr. t. 79. Brack. expl. 212. Kze. bot. z. IV. 460. — Aspidium gibbosum W. V. 222. Poir. suppl. IV. 508. Dsv. Ann. Linn. VI. 247. Spr. syst. IV. 99. — Nephrolepis Pr. t. 79. Ettingh. farn. 203. t. 134. f. 3. — Aspidium acuminatum W. V. 221. — Nephrodium Dsv. Ann. Linn. VI. 253. — Nephrolepis Pr. t. 79. — Lepidoneuron Fée gen. 301. — Aspidium articulatum Sieb. fil. exs. — Nephrolepis platyotis Kze. Linn. 23. 312. Mett. fil. h. Lips. 100. — Nephrolepis Zollingeriana de Vriese Ann. sc. nat. VI. 114. Kze. Linn. 23. 313.

Natalia (Gueinzius). — In monte Kilimandjaro (Kersten 69). — Ins. Comorae; ins. Angasilia (Kersten 67. 68); ins. Johannae (Peters). — Madagascaria. — Ins. Borboniae (Ad. Delessert, Boivin 877, Pappe, D'Urville, Vieillard). — Ins. Mauritii (Flügge in hb. W. 19741. Sieber syn. f. 39. flor. maur. 9. 14. fl. mixt. 297. Bory. Andersson. Ayres). — Ins. Galega. — Ins. Sechellae (Pervillé 22. Kersten 64. 65. 66). — As. P.

var. Mauritiana.

Aspidium Mauritianum Dsv. Berl. Mag. V. 320. Spr. syst. IV. 97. Boj. h. Maur. 389. — Nephrodium Dsv. Ann. Linn. VI. 252. — Nephrolepis Moore ind. — Aspidium biserratum v. pubescens Sieber fil. exsicc. — Nephrolepis Sieberi Pr. t. 79. Ettingh. farn. 204. t. 134. f. 4; t. 135. f. 3. 6.

Ins. Mauritii (Sieber syn. fil. 35).

## Nephrolepis punctulata Pr.

Pr. t. 79. Hk. gen. 48 A. Kze. Linn. 9. 90; 21. 229. Griseb. fl. brit. Westind. 688. — Polypodium Vahl. Ecl. III. 52 etc. — Aspidium Sw. syn. 46. 245. Schum. K. Dansk. Vid. Afh. IV. 228 etc. — Aspidium biserratum W. herb. pt.

Angola (Welwitsch). — Regnum Owariense (Palisot de Beauvois in hb. W. 19757. f. 2). — Ad flumen Gabun. — Am. c. a.

Digitized by Google

var. hirsuta Mett. msc.

Aspidium guineense Schum. K. Dansk. Vid. Afh. IV. 229. — Aspidium bifidum Hornem. Herb. Hawn. — Reliqua synonyma ad floram americanam pertinent.

Senegambia (Heudelot 868). — Guinea (Thonning, Mortensen). — Ad flumen Gabun (Jolis). — Am. c. a.

Nephrolepis ramosa Moore.

Moore ind. syn. LXXXIX. — Aspidium Pal. Beauv. fl. d'Owar. II. 53. t. 91. — Aspidium Palisotii Dsv. Berl. Mag. V. 320. Ann. Linn. VI. 246. — Aspidium repens W. hb. — Adiantum? sublobatum Schum. K. Dansk. Ved. Afh. IV. 235. — Nephrodium obliteratum R. Br. prod. 148. Poir. suppl. IV. 87. — Aspidium Spr. syst. IV. 79. — Nephrolepis J. Sm. in Hk. j. III. 413. Fée gen. 319. Hook. sp. IV. 154. Thwait. Ceyl. 393. Beddom. F. S. Ind. 83. t. 251. — Nephrolepis trichomanoides J. Sm. in Hk. journ. III. 413. Pr. epim. 44. Kze. bot. z. VI. 236. — Arthropteris J. Sm. ex Hk. flor. Nov. Zeal. — Lepidoneuron Fée gen. 301. — Nephrolepis repens Brack. expl. 209. — Polypodium auritum Pal. Beauv. ms.

Guinea (Thonning). — Regnum Owariense (Pal. Beauvois in hb. W. 19750). — Ad flumen Niger (Barter 2092). — Ins. Fernando Po (Vogel 193, Mann 246). — Ins. St. Thomae. — Angola (Welwitsch, iter angolense 55). — Ins. Johannae. — As. P.

Nephrolepis tuberosa Pr.

Pr. t. 79. Kze. bot. z. VI. 236. Fée gen. 319. Mett. f. h. Lips. 100. Hk. sp. IV. 151 pt. Milde fil. eur. 170. — Aspidium Bory in W. sp. V. 234. Spr. syst. IV. 98. Boj. h. Maur. 390. — Nephrodium Bory Duperr. 268. Dsv. Ann. Linn. 252. — Aspidium imbricatum Klf. Spr. IV. 97. Bl. enum. 146. — Nephrodium semihastatum Bojer msc. — Nephrolepis imbricata Pr. t. 79. Fée gen. 319. — Nephrodium Boj. h. Maurit. 392. — Reliqua synonyma ad floram indicam pertinent.

Ins. Borboniae (Bory in hb. W. 19759, Commerson, Boivin 878, Vieillard). — Ins. Mauritii (Sieber syn. fil. 41. fl. mixt. 296. Bouton. Ex herb. Mus. Paris). — As.

var. undulata Mett. msc.

Aspidium undulatum Afzel. ex Sw. in Schrad. j. 1800. II. 32. syn. 45 pt. W. V. 223. Spr. syst. IV. 99. — Nephrolepis J. Sm. Kze. Linn. 23. 313. — Nephrolepis tuberosa Hk. fil. j. Linn. Soc. VII. 236. Thoms. in Speke journ. 654. — Nephrolepis exaltata? A. Braun in Schweinf. beitr. 225. 311.

Ins. Caboverdicae, in monte Caramujo et Pico de Manceibo insulae St. Nicolai (C. Bolle). — Sierra Leone (Afzelius). — Montes Cameroon (Mann). — Ins. St. Thomae (Mann). — Ad flumen Gabun (Ed. Jardin). — Angola (Wel-

Digitized by Google

witsch). — Madagascaria. — Ins. Nossi-beh (Boivin). — Ins. Comorae; ins. Angasilia (Kersten 62. 63); ins. Mayotte (Boivin 2872). — ? Ad lacum Ukerewe (Speke et Grant). — Abyssinia (Schimper 621), prope Wöchni et prope Tschelga (Steudner). — Am. a.

## 31. Didymochlaena Dsv.

Didymochlaena lunulata Dsv.

Dsv. Ann. Linn. VI. 282. Kze. fil. I. 203. Mett. fil. h. Lips. 99. Ann. sc. nat. sér. V. t. II. 260. Hook. Gard. f. 17. sp. IV. 5. Griseb. fl. brit. Westind. 688. — Synonyma ad specimina locis indicis s. americanis enata referenda sunt.

Ins. Fernando Po (Mann 356). — Ins. St. Thomae. — Montes Cameroon (Mann). — Madagascaria (Goudot). — Ins. Comorae; ins. Johannae; ins. Mayotte (Boivin). — Am. c. a. As. P.

var. dimidiata.

Didymochlaena dimidiata Kze. Linn. 18. 122. fil. I. 200. t. 84. Fée gen. 217. Pappe et Raws. syn. 15. Moore ind. 319. Ettingh. farn. 203. t. 129. f. 3; t. 142. f. 9. 10.

Natalia. (Gueinzius).

## 32. Davallia Sm.

Davallia canariensis Sm.

Sm. Act. Taur. V. 414. t. 9. f. 6. Cav. dem. 277. n. 690. Lagasca Ann. Cienc. V. 160! Sw. Schrad. j. 1800. II. 88. syn. 134. W. V. 474. Klf. en. 223. Spr. syst. IV. 120. Dsv. Ann. Linn. VI. 315. Guill. Arch. I. 482. Lodd. Cab. t. 142. Lk. h. Berol. II. 8. spec. 43. Pr. t. 129. Hook. sp. I. 169. t. 56 A. Webb et Berth. phyt. 445. Kze. Linn. 23. 248. bot. z. VIII. 88. Brack. expl. 243. Fée gen. 329. Bolle Bonpl. III. 123. ztsch. f. erdk. XIV. 328. Mett. fil. h. Lips. 102. Lowe f. VIII. t. 12. Moore ind. 290. Ettingh. farn. 204. t. 131. f. 8; t. 137. f. 10. 11. Wawra Brasil. 191. — Trichomanes L. sp. 1562. Brot. lusit. II. 395. Bory Ess. Fortun. 314. Poir. enc. VIII. 81. — Polypodium lusitanicum L. sp. 7920.

Mauritania, prope Tingidem (Boissier, Reuter). — Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (Broussonet in hb. W. 20142. f. 2. Bourgeau 24. 1552 alii). — Ins. Caboverdicae; ins. St. Antonii et Nicolai (C. Bolle). — E.

Davallia denticulata Mett. msc.

Adiantum denticulatum Burm. fl. Ind. 236. Houtt. syst. XIII. t. I. 254. t. 100. f. 2. — Davallia elegans Sw. Schrad. j. 1800. II. 87. syn. 132. 347 etc.

var. intermedia Mett. msc.

Trichomanes chaerophylloides Poir. enc. VIII. 80. — Humata Dsv. Ann. Linn. VI. 325. — Davallia Kze. bot. z. VIII. 86. 256. Steud. Nomencl. bot. crypt. 146. Moore ind. 291. — Davallia nitidula Kze. Linn. 10. 545. Kze. fil. 77. t. 37. f. 2. bot. z. VIII. 86. Hook. sp. I. 165. t. 44. f. A. Fée gen. 329. Pappe et Raws. syn. 24. Moore ind. 297. Ettingh. farn. 205. t. 141. f. 5. t. 142. f. 7.

Natalia (Gueinzius, Drège). — Angola (Welwitsch, iter angolense 56). — Africa occidentalis tropica (Mann). — Ins. Comorae; ins. Johannae (Peters); ins. Mayotte (Boivin 1599). — Madagascaria (Boivin, Lyall). — Ins. Sechellae (Kersten 70).

## Davallia Mauritiana Hook.

Hook. sp. I. 164. t. 55 B. Kze. bot. z. VIII. 85. Fée gen. 329. Moore ind. 297. — Stenolobus Pr. epim. bot. 99.

Ins. Mauritii (Carmichael, Bojer, Boivin). — Ins. Johannae (Kirk).

## Davallia pellucida Dsv.

Dsv. Ann. Linn. VI. 316. Hook. sp. I. 194. Moore ind. 298.

Ins. Borboniae.

## Davallia repens.

Adiantum repens L. suppl. 446. Lam. enc. I. 40. Poir. suppl. I. 144. Aub. Thouars obs. s. l'isl. d'Afriq. 11. — Davallia pedata J. Sm. Act. Taur. V. 415. Sw. Schrad. j. 1800. II. 87. syn. 131. 341. W. V. 466. Bl. en. 230. Hk. sp. I. 154. t. 45 A. Gard. f. t. 7. Wall. cat. 250. Spr. syst. IV. 118. Dsv. Ann. Linn. VI. 314. Kze. bot. z. VIII. 54. Nees et Blume Nov. Act. XI. I. t. 13. f. 1. Lowe f. VIII. 25. Benth. fl. Hongk. 461. Dcne. Nouv. Ann. d. Mus. III. 349. Thwait. Ceyl. 388. Beddom. F. S. Ind. 4. t. 12. — Pachypleuria Pr. epim. 98. — Humata J. Sm. Lond. j. I. 475. Ettingh. farn. 206. t. 140. f. 1—4, 6—7. Mett. f. h. Lips. 102. t. 27. f. 13. Moore ind. syn. XCII. t. 74. f. 1—5. — Davallia serrata W. spec. V. 467. — Reliqua synonyma ad specimina locis indicis s. polynesicis enata sunt referenda.

Ins. Mauritii (Swartz in hb. W. 20133. f. 2. Bojer, Wallich, Carmichael. Ex herb. Mus. Paris). — Ins. Borboniae (Bory in hb. W. 20133. f. 1). — Ins. Sechellae (Kersten 71). — As. P. NH.

## Davallia Vogelii Hook.

Hook. sp. I. 168. t. 59 B. Kze. bot. z. VIII. 88. Fée gen. 329. Moore ind. 303.

Ins. Fernando Po (Barter, Vogel).

Digitized by Google

Davallia n. sp.

Angola (Welwitsch, iter angolense 141).

## 33. Dennstaedtia Bernh.

Dennstaedtia anthriscifolia Moore.

Moore ind. 303. — Dicksonia Klf. en. 227. Bojer h. Maurit. 409. Hk. sp. I. 79. t. 27 B. Spr. syst. IV. 123. Bory Bél. II. 76. Kze. Linn. 10. 545. Pr. t. 136. Fée gen. 335. Pappe et Raws. syn. 51. Ettingh. farn. 214. t. 150. f. 6. 7. — Cheilanthes W. V. 461. — Lonchitis Bory msc. in Hb. Willd. Desv. Ann. Linn. VI. 306.

Ins. Mauritii (Sieber syn. fil. 60. fl. mixt. 314. Bojer. Ex herb. Mus. Paris). — Ins. Borboniae (Bory in hb. W. 20128, Boivin 813, Gaudichaud).

Dennstaedtia stenochlaena Moore.

Moore ind. 315. — Dicksonia Fée gen. 336.

Ins. Borboniae.

## 34. Microlepia Pr.

Microlepia Speluncae Moore.

Moore ind. syn. XCIII. — Davallia Baker in sched. — Polypodium L. sp. 7919. Vahl. symb. III. 105. Schk. f. 191. t. 26. d. e. Poir. enc. V. 551. — Microlepia polypodioides Pr. t. 125. Hk. gen. 58 A. f. 6. Brack. expl. 238. J. Sm. cat. f. cult. 67. Pappe et Raws. syn. 24. Ettingh. farn. 209. t. 135. f. 9; t. 142. f. 8. Beddom. F. S. Ind. 5. t. 15. — Polypodium molle Rich. msc. — Davallia Kze. bot. z. VIII. 172. — Microlepia Moore ind. 297. — Davallia subvolubilis Kze. bot. z. VIII. 158. — Davallia Madagascariensis Kze. bot. z. III. 800. VIII. 173. — Dicksonia Kze. Anal. pter. 38. Hk. sp. I. 74. — Microlepia Moore ind. 313. — Microlepia Senegalensis Mett. msc. — Dicksonia aspidioides W. hb. — Microlepia Pr. epim. 96. — Cystopteris Pr. t. 93. Hk. sp. I. 202. — Reliqua synonyma ad specimina locis americanis, indicis, polynesicis enata referenda sunt.

Senegambia. — Guinea. — Ins. Fernando Po (Vogel). — Congo (Smith). — Prom. bon. spei, prope Macalisberg (Burke). — Ins. Borboniae (Ex herb. Mus. Paris). — Ins. Mauritii (Thouars in hb. W. 20158). — Madagascaria (Goudot). — Ins. Sechellae (Ward). — Am. c. a. As. P.

Digitized by Google

## Ordo. III. **Cyatheaceae Endl.**

### **35. Dicksonia L'Hérit.**

Dicksonia arborescens L'Hérit.

L'Hérit. Sert. angl. 31. t. 43. Ait. hort. Kew. III. 469. Cav. dem. 274. n. 681. J. Sm. Rees. Cycl. t. XI. W. V. 485. Poir. suppl. II. 472. Wall. cat. 64. Spr. syst. IV. 22. Roxb. in Beats. St. Helen. 306. Pritch. Cat. pl. Helen. 14. Bory Duperr. voy. 280. Hk. sp. I. 66. t. 22 A. J. Sm. Lond. j. bot. I. 435. Moore ind. 311. t. 87 A. — Balantium arborescens Hook. gen. t. 20. Lk. spec. 40. Kze. Linn. 23. 238. — Balantium auricomum Klfs. enum. 228. t. 1. f. 13. Pr. t. 134. t. 5. f. 3. Fée gen. 341. — Dicksonia Spr. syst. IV. 122. — Dicksonia integra Sw. Schrad. j. 1800. II. 90. syn. fil. 136. Bernh. in Schrad. n. journ. 1806. I. 20. t. 2. f. 3.

**Ins. St. Helenae (Humboldt in hb. W. 20151, Lesson, D'Urville, Cuming 432, Bory, Perrottet, J. Smith, Andersson, Meller, Seemann 2636).**

Dicksonia Culcita L'Hérit.

L'Hérit. Sert. anglic. 31 pt. Sm. Rees Cycl. t. XI. Sw. Schrad. journ. 1800. II, 90. Ait. hort. Kew. III. 469. Sw. syn. 136. W. V. 486. Poir. enc. suppl. II. 472. Spr. syst. IV. 122. Seubert flor. Azor. 16. Lowe f. VIII. t. 39. Moore ind. 312. — Balantium Klf. en. 229. J. Sm. Lond. j. bot. I. 435. cat. f. Kew. 7. Moore et Houlst. Gard. Mag. bot. III. 328. 76. Kze. Linn. 23. 238. Mett. f. h. Lips. 107. t. 28. f. 11. Ettingh. farn. 218. t. 148. f. 10. — Culcita macrocarpa Pr. t. 135. t. 5. f. 5. Hook. Gen. t. 60 A. Fée gen. 340.

**Ins. Madeira. — Ins. Canarienses; ins. Teneriffa (La Perraudière, Bolle, Bourgeau 1547). — Ins. Azor.**

### **36. Alsophila R. Br.**

Alsophila aethiopica Welw. msc.

Truncus 3—6′ altus, diametro 2—3″; folia membranacea utrinque ad costas hirsuta s. pilis ferrugineis adpressis hispidula; petiolus »tuberculis parvis« muricatus, 1½′ longus; rhachis hirsuta, denique purpurascens, nitida; lamina 2—3′ longa, oblonga, acuminata, pinnato-pinnatipartita; pinnae numerosae, sessiles, 9″ longae, 1—1¾″ latae, elongatae, acuminatae; laciniae subdistinctae, basi dilatata contiguae rectangule patentes, lineari-oblongae s. lineares, acutae s. acumi-

Digitized by Google

natae, basi leviter versus apicem manifestius serratae; nervi utrinque 12—20, furcati; sori alares, costulae approximati; paraphyses numerosae, elongatae, filiformes, sporangia superantes. (Mett. msc.)

Angola (Welwitsch, iter angolense 161. 162. 116). — Regiones tropicae Africae occidentalis (Curror). — Ins. Comorae; ins. Johannae (Kirk).

## Alsophila Boivini Mett.

Truncus?, folia membranacea, supra opaco-viridia et ad costas ferrugineo-tomentella, infra pallidiora et ad costas costulasque paleis minutis, ovatis, fuscis, bullatis squamulosa; petiolus?; rhachis secundaria tenuissime asperula, livido-rufescens, supra ferrugineo-tomentella; lamina tripinnatisecta, segmenta primaria ad 2′ longa, lato-lanceolata, acuminata, secundaria rectangule patentia, breviter petiolulata, media 4″ longa, e basi latiore elongato-oblongo-lanceolata, acuminata, apice crenato-incisa; tertiaria 4—5‴ longa, 2‴ lata, oblonga, obtusa, obtuse crenato-sublobata, inferiora subpetiolulata, basi oblique truncata, media basi inferiore decurrente rhachin alantia, superiora coadunata, denique confluentia, e basi fere ad apicem sorifera; crenae utrinque 4—7, nervum indivisum vel furcatum excipientes; sori dorsales rarius alares, distantes, costulae approximati; receptaculum incrassatum; paraphyses minutae, dense sporangiis superatae. (Mett. msc.)

Mett. msc. in hb. Vindob. Ettingh. farn. 220. t. 155. f. 2. 3.
Cyathea Pervilleana Herb. Lenorm.

Ins. Comorae; ins. Mayotte (Boivin).

## Alsophila obtusiloba Hook.

Truncus?; folia membranacea praeter costas supra hirsutas glabra; petiolus muricatus, 2—3″ longus, cum rhachi purpurascens s. rufescens, laevis; lamina 4′ longa, lanceolata, acuminata, pinnato-pinnatipartita; pinnae subsessiles, numerosae, subapproximatae, elongatae, acuminatae, mediae ad 7″ longae, inferiores sensim decrescentes, vix 1″ longae; laciniae ala 1‴ lata confluentes, elongato-oblongae, obtusae, levissime serrulatae; nervi utrinque 10—12, laxe dispositi, furcati; sori alares, costulae magis quam margini approximati; paraphyses nullae s. brevissimae; indusium in basi sori pateraeforme, fuscum, persistens, minutum. (Mett. msc.)

Africa occidentalis; Sierra del Crystal (Mann 1621).

Folio brevipetiolato, lamina lanceolata, pinnis infimis longe decrescentibus, laciniis vix serrulatis, paraphysibus nullis s. brevissimis ab Als. Aethiopica recedens; ergo non nisi divisione laminae cum ea conjunctum. (Mett. msc.)



Digitized by Google

## 37. Hemitelia R. Br.

Hemitelia capensis R. Br.

R. Br. prod. 158. Klf. en. 253. Schldl. ad. 55. (t. 34. ined.) Dsv. Ann. Linn. VI. 321. Spr. syst. IV. 126. Hook. gen. t. 42 A. syn. 29. Kze. bot. z. II. 312. Linn. 10. 552; 23. 257. Harvey gen. S. Afric. pl. 380. Pr. Stip. 42. t. 7. f. 17. Fée gen. 349. Bunbury Lond. journ. II. 39. Mett. fil. h. Lips. 111. t. 29. f. 6—7. Lowe f. 8. t. 62. — Polypodium L. suppl. 445. Thbg. prod. 172. fl. cap. 735. Poir. enc. V. 553. — Cythea J. Smith. Act. Taurin. V. 417. — Aspidium Sw. Schrad. j. 1800. II. 42. syn. 61. Dsv. Ann. VI. 250. — Alsophila J. Smith Lond. journ. I. 666. Hook. spec. I. 36. Kze. Linn. 20. 8. Pappe et Raws. syn. 11. — Amphicosmia Klotzsch Allg. Gartenz. 1856. 107. Moore ind. 60. — Cormophyllum Newm. Phytol. V. 238. — Cyathea riparia W. V. 493. Poir. suppl. II. 424. — Hemitelia Dsv. Ann. Linn. VI. 322. — Amphicosmia Gardner Lond. journ. I. 441. t. 12. Klotzsch Allg. Gartenz. 1856. 107. — Cyathea monosorata W. hb. — Cyathea polypodioides Sw. Act. Holm. 1817. 78. Hook. sp. I. 22. Spr. syst. IV. 126. — Hemitelia Kze. bot. z. II. 282. — Hemitelia Gardneriana Presl. Stip. 42. — Excrescentiae in basi petiolorum. — Trichomanes incisum Thbg. prod. 173. flor. cap. 737. — Trichomanes cormophylum Klf. en. 266.

Prom. bon. spei (Bergius, Meuron in hb. W. 20172, Chamisso, herb. Zeyher, Ecklon et Zeyher, Hutton, Burch. 5862. 5408). — Natalia (Gueinzius). — Ins. Mauritii (Thouars in hb. W. 20185). — Ins. Comorae (Boivin). — Am. a.

## 38. Cyathea Sm.

Cyathea Angolensis Welwitsch msc.

Hook. syn. 22.

Angola (Welwitsch, iter angolense 83 bis, 186).

Cyathea Boivini Mett. msc.

Folia tenuiter coriacea, supra laete, denique opaco-viridia, supra in costis hirsuta, infra pallida, glabra; petiolus?; rhachis valida cum ramificationibus infra muricata; supra adpresse tomentello-hirsuta paleisque flaccidis, linearibus, fuscis, margine pallidis laxius obsita; lamina pinnatisecto-pinnatipartita; segmenta primaria brevissime petiolata, elongato-lanceolata, secundaria subsessilia, linearia, acuminata, profunde pinnatipartita, apice argute serrata; laciniae distinctae vel ala angustissima confluentes, approximatae vel laxius dispositae,

Digitized by Google

lineares, obtusae vel acutae, apice vel margine toto tenuiter serrulatae; fertiles crenatae, e basi ad apicem soriferae; nervi manifesti, furcati vel trifurcati, densi, infimi externi e costulae basi emissi; sori utrinque ad 6—10 contigui, costulae adpressi, crenis marginis revolutis subvelati; indusium chartaceum, circumscissum, ore integrum; paraphyses minutissimae. (Mett. msc).

Ettingh. farn. 224. t. 159. f. 4; t. 160. f. 4.

Ins. St. Mariae ad Madagascariam (Boivin 1602).

## Cyathea Camerooniana Hook.

Hook. syn. 21.

Ad flumen Cameroon (Mann 2059).

## Cyathea canaliculata W. hb.

W. hb. in Klf. en. 260. Spr. syst. IV. 26. Boj. h. Maurit. 388. Pr. t. 55. Stip. 39. t. 7. f. 9. Hk. sp. I. 23. t. 11 B. Fée gen. 253. Kze. bot. zeit. II. 283. Lowe f. VIII. 55. Moore ind. 266. syn. CIII. Ettingh. farn. 224. t. 156. f. 3; t. 158. f. 14. — Cyathea melanocaula Dsv. Ann. Linn. VI. 322. — Cyathea borbonica Dsv. Berl. Mag. V. 328. Poir. suppl. II. 425. Spr. syst. IV. 126. Boj. h. Maurit. 388. — Cyathea mascarena Sw. ex Dsv. Ann. Linn. VI. 322. — Aspidium Telfairianum Wall. cat. 385. — Alsophila Wall. Hook. sp. I. 56. — Cyathea robusta Bojer Wall. cat. 182.

Ins. Mauritii (Thouars in hb. W. 20184. Sieber syn. fil. 59. Andersson). — Ins. Borboniae (Boivin 898). — Madagascaria (Thouars).

var. laevigata Mett. msc.

Cyathea laevigata W. hb. Klf. en. 256. Spr. syst. IV. 127. Pr. t. 55. Stip. 39. Kze. bot. z. II. 279. Hk. sp. I. 16. Moore ind. 270. — Schizocaena J. Sm. Lond. j. I. 661. — Cyathea Pervilleana Fée gen. 352. Moore ind. 272. — Cyathea extensa Bojer.

Madagascaria (Thouars in hb. W. 20181). — Ins. Nossi-beh (Pervillé). — Ins. Mauritii (Sieber fl. mixt. 304, Boivin, Andersson). — Ins. Borboniae (Gaudichaud. Ex hb. Mus. Paris).

var. rufescens Mett. msc.

Alsophila Madagascariensis W. hb. — Cyathea Klf. en. 257. Spr. syst. IV. 127. — Cyathea discolor Fée gen. 153.

Madagascaria (Thouars in hb. W. 20166).

var. latifolia Hook.

Hook. spec. I. 24. t. 13 A. — Cyathea Commersoniana Fée gen. 253. Moore ind. 267.

Madagascaria (Goudot). — Ins. Mauritii (Commerson 1773).



Digitized by Google

### Cyathea decrescens Mett. msc.

Truncus?; folia membranacea, rigidula, supra opaco-viridia, infra pallide viridia supra laxius, infra densius praesertim in costis nervisque pubescenti-hirta; petiolus validus, abbreviatus, 1′ longus, basi paleis rigidis, nigricantibus, nitidis, ovato-lanceolatis, 3—4‴ longis obsitus; rhachis livido-straminea, infra et inferne aërophoris immersis, rimaeformibus obsita et tuberculata, supra ferrugineo-tomentella, vel in secundariis dense pilosa; lamina lanceolata, subpinnatisecta; segmenta primaria approximata, patentia, sessilia 8″ longa, elongato-oblonga, lanceolata, acuminata, profunde basi ad costam pinnatipartita, inferiora sensim ac manifeste decrescentia, ceterum conformia, denique (juga circiter 6) difformia, laciniato-multifida; laciniae subrectangule patentes, 6—8‴ longae, 2½‴ latae, elongato-oblongae, obtusae, subintegerrimae, inferiores distinctae, supra basin paullulum attenuatae, superiores contiguae, ala angusta confluentes; nervi furcati, teneri, ad furcaturam soriferi; sori e basi laciniarum ultra medium producti, contigui, costulae subapproximati; indusium membranaceum fatiscens; paraphyses pilosae. (Mett. msc.) Ettingh. farn. 225. t. 159. f. 3; t. 160. f. 6.

Madagascaria (Goudot). — Ins. St. Mariae (Boivin 1600).

Segmentis inferioribus difformibus 6—? jugis multifidis more H. capensis.

### Cyathea Dregei Kze.

Kze. Linn. 10. 551; 13. 152. bot. z. II. 282. Fée gen. 352. Hk. sp. I. 23. t. 10 B. et var. β. serrata t. 17 A. Pr. Stip. 39. Pappe et Raws. syn. 11. Moore in Hk. j. bot. V. 227. Moore ind. 268. Hook. syn. 21. — Cyathea Burkei Hook. sp. I. 23. t. 17 B. Kze. bot. z. II. 282. Fée gen. 352. Pappe et Raws. syn. 11.

Prom. bon. spei, inter flumina Omsamwubo et Omsamcaba (Drège), prope Macalisberg (Burke, Zeyher 1862). — Natalia (Plant 314, Gueinzius). — Moramballa montes ad flumen Zambeze (Waller).

### Cyathea excelsa Sw.

Sw. Schrad. j. 1800. II. 90. syn. 140. 367. W. V. 492. Klf. en. 257. Spr. syst. IV. 127. Dsv. Ann. Linn. VI. 322. Boj. h. Maurit. 388. Brongn. Veget. foss. t. 42. f. 1. Pr. t. 55. t. 1. f. 15. Stip. 39. t. 7. f. 11. Hk. sp. I. 24. t. 12 B. Syn. 22. J. Sm. Lond. j. bot. I. 663. Kze. Linn. 23. 246. bot. z. II. 283. VI. 284. Lowe f. VIII. t. 56. Fée gen. 352. Moore ind. 268. Ettingh. farn. 224. t. 159. f. 2; t. 160. f. 1. — Cyathea arborea Bory it. I. 179.

Digitized by Google

Ins. Borboniae (Bory in hb. W. 20170. Carmichael. Boivin 899. Ex herb. Mus. Paris). — Ins. Mauritii (Bojer. Sieber syn. f. 58. fl. mixt. 303. Gaudichaud. Ex herb. Mus. Paris). — As.?

Cyathea glauca Bory.

Bory it. II. 206. Sw. syn. 140. Brongn. hist. d. veg. foss. 155. t. 38. W. V. 493. Poir. suppl. II. 424. Klf. en. 257. Dsv. Ann. Linn. VI. 322. Spr. syst. IV. 127. Pr. t. 55. Boj. h. Maur. 388. Hk. sp. I. 25. Kze. bot. z. II. 283. IV. 476. Fée gen. 352. Moore ind. 269. Ettingh. farn. 224. t. 158. f. 3.

Ins. Borboniae (Bory in hb. W. 20171. Boivin).

Cyathea Goudotii Kze.

Kze. bot. z. II. 283. in obs. Moore ind. 269.

Madagascaria (Goudot 27).

Cyathea Kirkii Hook.

Hook. syn. 22.

Ins. Comorae; ins. Johannae (Kirk).

Cyathea Manniana Hook.

Hook. syn. 21.

Ins. Fernando Po (Mann 363; in distr. hb. Kew. 41). — Montes Cameroon (Mann 1392).

Cyathea marattioides W. hb.

W. hb. Klf. enum. 256. Spr. syst. IV. 127. Pr. t. 55. Stip. 45. Kze. bot. z. II. 279. Hk. sp. I. 16. Moore ind. 271. Ettingh. farn. 223. t. 156. f. 2. — Hemitelia cordata Dsv. Ann. Linn. VI. 321. Hk. sp. I. 33.

Ins. St. Mariae (Boivin 1601). — Madagascaria (Aub. Thouars in hb. W. 20180). — Ins. Nossi-beh (Boivin).

Cyathea Sechellarum Mett.

Mett. Ann. Mus. Lugd. Bat. I. 58. Hook. syn. 22.

Ins. Sechellae (Pervillé 76 a; 365 bis. Ward in distr. hb. Kew. 38).

Cyathea Welwitschii Hook.

Hook. syn. 21. — Cyathea sp. Hook. fil. in j. Linn. soc. VII. 234.

Ins. Fernando Po (Mann). — Ins. St. Thomae (Mann 1104; in distr. hb. Kew. n. 41/1). — Angola (Welwitsch, iter angolense n. 66).

Cyathea sp.

Cf. supra pag. 27.

In monte Kilimandjaro (Kersten 72).

Digitized by Google

## Ordo. IV. **Parkeriaceae Hook. Grev.**

### **39. Ceratopteris Ad. Brong.**

Ceratopteris thalictroides Ad. Brongn.

Ad. Brongn. Dict. sc. nat. III. 350. Bull. soc. philom. 1821. 184. Hk. gen. 12. spec. II. 235 pt. Mett. f. h. Lips. 39. Bot. Herald. 426. Lowe f. II. 66. Hassk. cat. h. Bojer 10. Moore ind. 230. Kotschy pl. Binderian. 2. Thoms. in Speke journ. 654. Benth. fl. Hongk. 443. Thwait. Ceyl. 379. Mett. Ann. sc. nat. sér. V. t. II. 266. Griseb. fl. brit. Westind. 672. Beddom F. S. Ind. 26. t. 75. Ettingh. farn. 55. t. 19. f. 6; t. 20. f. 20. Schweinf. beitr. 220. — Acrostichum L. sp. 7785. flor. zeyl. 377. t. 4. Lam. enc. I. 37. — Pteris Sw. Schrad. j. 1800. II. 65; 1803. II. 285. Lam. enc. V. 724. Poir. suppl. I. 129. Sw. syn. 98. W. V. 378. — Teleozoma R. Br. in Frankl. journ. 1823. 54. — Furcaria Dsv. Ann. Linn. VI. 292. — Cladostachys Wall. ol. ex cat. 83. — Pteris cornuta Pal. Beauv. fl. d'Oware 63. t. 38., Poir. enc. suppl. IV. 608. W. V. 404. — Furcaria Dsv. Ann. Linn. VI. 292. — Onychium Hassk. cat. h. Bogor. 7. Adn. plant. Javan. 1. — Ceratopteris Le Prieur. Ann. sc. nat. sér. I. t. 19. p. 99. t. 4 A. etc.

**Senegambia (Leprieur, Brunner, Perrottet 1185). — Guinea (Thonning). — Owaria (Pal. Beauvois in hb. W. 20024). — Ins. Principis (Barter). — Madagascaria (Boivin). — Ins. Borboniae (Boivin). — Ad Nilum album, prope Hillet-Kaka (Binder), in regione Madi (Speke et Grant). — Am. a. As.**

---

## Ordo. V. **Gleicheniaceae R. Br.**

### **40. Platyzoma R. Br.**

Platyzoma microphyllum R. Br.

R. Br. prod. 160. Guillem. ic. pl. Austr. rar. 8. t. 13. Dsv. Ann. Linn. VI. 199. Pr. t. 49. t. I. f. 4. Hook. gen. 41 C. sp. I. 2. Ettingh. f. 234. t. 167. f. 2; t. 168. f. 1. — Gleichenia Platyzoma F. Müll. Veget. Chath. Isl. 63.

**Madagascaria (Bojer). — (Patria valde dubia). — NH.**

Digitized by Google

## 41. Gleichenia Sm.

### Gleichenia Boryi Kze.

Kze. fil. I. 162. t. 70. f. I. Moore ind. 374. Ettingh. farn. 234. t. 167. f. 5. — Gleicheniastrum Pr. Stip. 30. in adnot. — Gleichenia Lepervanchei Bory msc.

Ins. Borboniae (Bory, Gaudichaud, Lepervanche, Boivin).

### Gleichenia dichotoma Hook.

Hook. sp. I. 12. Mett. fil. h. Lips. 113. Ann. Mus. Lugd. Bat. I. 50. Ann. sc. nat. sér. IV. t. XV. 84. J. Sm. Bot. Herald. 242. Lowe f. VIII. 51. Moore ind. 375. Hook. fil. j. Linn. soc. VII. 234. Beddom F. S. Ind. 25. t. 74. Benth. fl. Hongk. 442. — Polypodium Thbg. fl. jap. 338. t. 37. Lam. enc. V. 543. Roxb. crypt. pl. 3. Sw. Schrad. j. 1800. II. 28. — Mertensia W. Act. Holm. (1804.) 167. spec. V. 71. Sw. Act. Holm. (1804.) 174. Flor. ind. occ. 2017. syn. 163. Fisch. et Langsd. 25. t. 29. Schk. fil. 150. t. 148. Klf. en. 40. Bory Duperr. 252. Brack. expl. 297. Kze. Linn. 24. 247. bot. z. VI. 492. Thwaites. Ceyl. 379. — Dicranopteris Bernh. Schrad. j. 1806. 38. — Mesosorus Hassk. pug. 9. — Mertensia discolor Schrad. Gött. gel. Anz. 1824. 863. — Mertensia Sieberi Pr. t. 51. — Gleichenia Hermanni R. Br. prod. 161. Bl. en. 248. Wall. cat. 155. Spr. syst. IV. 26. Boj. h. Maur. 420. — Reliqua synonyma ad specimina locis indicis s. polynesicis s. australasicis enata referenda sunt.

Sierra Leone. — Montes Cameroon (Mann). — Ins. Fernando Po (Vogel, Mann 138). — Ins. St. Thomae. — Congo. — Natalia (Gueinzius). — Ins. Borboniae (Sw. in hb. W. 19463. Boivin 913). — Ins. Mauritii (Sieber syn. 20. fl. mixt. 276. fl. maur. 2. Bouton. D'Urville). — Madagascaria (Lyall, Forbes, Bojer, Chapelier). — Ins. Comorae; ins. Mayotte (Boivin 2884). — Ins. Sechellae (Kersten 73. 74). — As. P. NH.

### Gleichenia flagellaris Spr.

Spr. syst. IV. 25. Boj. h. Maurit. 420. Hook. sp. I. 10. Moore ind. 377. — Mertensia Bory in W. V. 74. Poir. suppl. III. 669. Dsv. Ann. Linn. VI. 200. — Mertensia muricata Klfs. in Sieb. fil. exs. — Gleichenia Spr. syst. IV. 27. Boj. h. Maur. 420.

Ins. Borboniae (Bory in hb. W. 19469. Boivin 914). — Ins. Mauritii (Sieber syn. 18. fl. mixt. 277. Telfair, Bojer, Lepervanche 28).

### Gleichenia polypodioides Sm.

S. Sm. Act. Taurin. V. 419. t. IX. f. 10. Thbg. prod. 173. fl. cap. 737. Sw. Schrad. j. 1800. II. 107. syn. 165. Bernh. Schrad. j. 1800. II. 132. Schk. fil. 150. t. 149. W. V. 70. Spr. syst. IV. 26. Schldl. ad. 11. Dsv. Ann. Linn. VI. 199.

Digitized by Google

Hk. gen. t. 41 A. spec. I. 3. Pr. t. 48. t. I. f. 1. Stip. 30. t. 6. f. 1. Kze. Linn. 10. 489. J. Sm. Lond. j. II. 380. Mett. f. h. Lips. 113. Ann. Mus. Lugd. Bat. I. 47. Moore ind. 381. Pappe et Raws. syn. 10. Ettingh. farn. 234. t. 167. f. 6. — Onoclea L. sp. 7739. Lam. enc. IV. 555.

Prom. bon. spei (Meuron in hb. W. 19460, Drège, Ecklon et Zeyher, Bergius, Ecklon un. it. 325, Gaudichaud, Sieber fl. mixt. 271, Burch. 4712, Pappe). — Natalia. — Angola (Welwitsch, iter angolense 162).

var. argentea Schldl. l. c. 12.

Gleichenia argentea Klf. en. 36. Kze. Linn. 10. 490. Pr. t. 48. t. 1. f. 2. Pappe et Raws. syn. 10. Ettingh. farn. 234. t. 165. f. 9. — Gleichenia polypodioides β. glauca Hook. sp. I. 3. Moore ind. 381. — Gleichenia glauca Sw. syn. 165. 393. W. V. 70. Dsv. Ann. Linn. VI. 200. Kze. Linn. 10. 489. — Mertensia coeruleo-glauca. Poir. suppl. III. 669.

Prom. bon. spei (Chamisso, Sieber syn. f. 178, Forbes, Drège, Ecklon et Zeyher 86, Krauss, Zeyher herb. 708. 4603, Kölbing).

Gleichenia umbraculifera Moore.

Moore ind. 384. — Mertensia Kze. Linn. 18. 114. Pappe et Raws. syn. 10.

Prom. bon. spei: Kumahala (Breutel). — Natalia (Gueinzius).

---

## Ordo. VI. **Schizaeaceae Mart.**

## 42. Lygodium Sw.

Lygodium Boivini Mett. msc.

Folia (volubilia) elongata, chartacea, laevia, rhachis cum ramificationibus continua, bipinnatisecta, primaria marginata, partiales anguste herbaceae, alatae; segmenta primaria sterilia, ad 7″ longa, secundaria oblonga vel elongato-oblonga, lanceolata, apice attenuata, obtusa vel acuta, sinuata, basi sinuato-lobata, apice remote serrata vel integerrima; 3—4 juga, inferiora manifeste petiolulata, 3½″ longa, 8‴ lata, basi subcordata, medio cuneatim producta, proxima brevius petiolata, basi inaequaliter rotundata, suprema e basi cuneata, inferiore adnata; maculae translucentes, costales et paracostales elongatae, ceterae angustae; segmenta fertilia oblonga, secundaria 5 juga, 1½—2″ longa, 4—5‴ lata, brevius petiolulata, primaria basi oblique truncato-rotundata, elongato-oblonga, apice attenuato obtusa; laciniae fertiles densae vel distantes, lineares

Digitized by Google

polycarpae, dentibus sterilibus basi distinctae vel destitutae; maculae uniseriatae, non raro solutae. (Mett. msc.)

Hydroglossum leptostachyum Fée in Herb. Moug.

**Ins. Nossi-beh ad Madagascariam (Boivin).**

## Lygodium Kerstenii.

Cf. supra pag. 28.

**Ins. Nossi-beh ad Madagascariam (Kersten 75). — Africa orientalis tropica, prope Mombas (Kersten 76).**

## Lygodium lanceolatum Dsv.

Dsv. Berl. Mag. V. 307. (1811.) Dsv. journ. bot. III. 270. Ann. Soc. Linn. VI. 204. Spr. syst. IV. 28. — Hydroglossum Madagascariense Poir. suppl. III. 78. Pr. t. suppl. 113. Moore ind. syn. CXIV.

**Ins. Borboniae (Vieillard). — Madagascaria (Commerson, Aub. Thouars in hb. W. 19477, Bojer, Meller, Pervillé). — Ins. Nossi-beh (Boivin). — Ins. Comorae; ins. Mayotte (Boivin 2885).**

## Lygodium scandens Sw.

Sw. Schrad. 1800. II. 106; 1803. II. 303. syn. 152. Pr. suppl. t. 102. — Rumph. Herb. Amb. VI. 32. f. 2. 3. Rheede Hort. Malab. XII. 34. — Thwait. Ceyl. 379. Ettingh. farn. 236. t. 147. f. 2. 4. 10; t. 169. f. 3. — Ophioglossum L. sp. 7745. Houtt. syst. XIII. I. 50. t. 94. f. 2. Lam. enc. IV. 562. — Odontopteris Bernh. Schrad. j. 1801. I. 127. t. 2. f. 4. a. b. — Hydroglossum W. Act. Erfort. 1802. 20. spec. V. 77. Poir. suppl. III. 74. — Reliqua synonyma ad floram australasicam s. indicam pertinent.

**Senegambia (Pal. Beauvois, Leprieur, Perrottet 986, Heudelot, Jardin). — Ad flumen Niger (Barter 2197), Bagroo (Mann 537). — Africa occidentalis tropica (Vogel). — As. P. NH.**

## Lygodium Smithianum Pr.

Folia chartacea, glaberrima; rhachis primaria, straminea, laevis, secundaria abbreviata; gemma ferrugineo-setosa terminata, in ramificationibus praesertim supra tenuiter hirsuta et angustissime marginata; segmenta bina, opposita, petiolo 1″ longo imposita, pinnatisecta cum impari; segmenta secundaria 3 juga, petiolo 1—2‴ longo imposita, continua, $3\frac{1}{2}$″ longa, 6—8‴ lata, e basi cuneata s. cordata, lineari-oblonga, obtusa, sterilia tenuiter serrulata; fertilia inferiora bipinnata; nervis densis repetito-furcatis, dorsum dentium intrantibus; fertilia margine in lacinias numerosas producta; lobi fertiles oblongi, obtusi, serrati, utrinque 4—5 sporangia gerentes. (Mett. msc.)

Pr. t. suppl. 112. — Lygodium spec. R. Br. in Ch. Smith. voy. Congo App. 461.

Digitized by Google

Ins. Fernando Po (Vogel, Mann 136). — Ad flumen Niger (Barter 1913). — Angola (Welwitsch, iter angolense 81). — Congo (Ch. Smith).

Lygodium subalatum Bojer msc.

Rhizoma abbreviatum, ferrugineo-setosum; folia membranacea utrinque in costis ac nervis setis articulatis, pallidis sparse s. dense obsita; petiolus cum rhachi stramineus; rhachis partialis, marginata, alata; brachia petiolata, oblonga, sterilia pinnatisecto-bipinnatipartita; segmenta approximata, rectangule patentia, petiolulata, e basi cordata s. subcordata, ovato-oblonga, apice attenuata, obtusa, ad $2^1/_2''$ longa; laciniae ala angusta confluentes, oblongo-lanceolatae, acutae, pinnatifidae, lobis semirotundatis; nervi curvati, densi; segmenta fertilia basi profundius incisa, secundaria ovata, pinnatifida, lobis in spicam exeuntibus. (Mett. msc.)

Ins. Comorae; ins. Johannae (Bojer). — Madagascaria.

## 43. Schizaea Sm.

Schizaea dichotoma Sm.

J. Sm. Act. Taurin. V. 419. W. Act. Erfort. 1802. 30. t. 3. f. 2. spec. V. 87. Sw. Schrad. j. 1800. II. 102. 1803. II. 298. syn. 150. R. Br. prod. 162. Guill. ic. pl. Austr. 13. t. 20. Bory Duperr. 250. Spr. syst. IV. 30. Dsv. Ann. Linn. VI. 203. Kze. Linn. 9. 19. Hk. et Grev. ic. t. 17. Gen. t. 19. Boj. h. Maurit. 421. Kl. Linn. 18. 258. Brack. explor. 303. Hook. fl. N. Zeal. II. 47. Hdb. fl. N. Zeal. 385. Beddom. F. S. Ind. 22. t. 65. Ettingh. farn. 238. t. 176. f. 2. Mett. Ann. sc. nat. sér. V. t. II. 269. — Acrostichum L. sp. 7772. Lam. enc. I. 35. Poir. suppl. I. 126. Forst. prod. n. 415. — Osmunda Spr. Schrad. j. 1799. II. 268. — Ripidium Bernh. Schrad. j. 1800. II. 127. t. 2. f. 3. etc.

Ins. Borboniae (Bory, Boivin 915, Delessert. Ex herb. Mus. Paris). — Ins. Mauritii (Bojer). — Madagascaria (Commerson). — Am. c. a. As. P. NH.

Schizaea digitata Sw.

Sw. syn. 150. 380. t. 4. f. 1. W. V. 86. R. Br. prod. 162. Spr. syst. IV. 30. Dsv. Ann. Linn. VI. 202. Bl. enum. 255. Kze. bot. z. VI. 493. Mett. fil. h. Lips. 114. Thwait. Ceyl. 379. Hook. Gard. Ferns. t. 49. Beddom. F. S. Ind. 88. t. 268. — Acrostichum L. sp. 7773. Amoen. ac. I. 269. t. 12. f. 1. Lam. enc. I. 35. Poir. suppl. I. 125. — Actinostachys Wall. cat. 1. Poir. suppl. 73. J. Sm. Hook. Lond. j. I. 385. — ? Acrostichum pectinatum Noronha prod. phyt. ex Aub. Thouars Mel. et Voy. 1811.

Madagascaria (Thouars). — As. P.

Digitized by Google

Schizaea pectinata Sm.

J. Sm. Act. Taurin. V. 419. Sw. Schrad. j. 1800. II. 102. syn. 150. Schk. fil. 136. t. 136. W. V. 85. Thbg. prod. 172. flor. cap. 734. Klf. en. 49. Schldl. adumbr. 13. Klf. Linn. 6. 182. Spr. syst. IV. 30. Dsv. Ann. Linn. VI. 202. Kze. Linn. 10. 493. Pr. suppl. t. 74. Mett. f. h. Lips. 114. Pappe et Raws. syn. 45. — Acrostichum L. sp. 7771. Amoen. acad. I. 270. t. 12. f. 4. 5. Lam. enc. I. 35. Poir. suppl. I. 125. Berg. cap. 356.

Prom. bon. spei (Thunberg in hb. W. 19485, Meuron, Chamisso, Sieber, Mundt et Maire, Bergius, Ecklon et Zeyher, Lalande, Forbes, Burch. 410. 4612, Drège, Krauss alii). — Natalia (Gueinzius). — Ins. St. Helenae (Andersson).

Schizaea tenella Klf.

Klf. enum. 50. t. 1. f. 7. Schldl. adumbr. 13. Kze. Linn. 10. 493. fil. I. 241. t. 98. f. 2. Spr. syst. IV. 30. Pr. suppl. t. 74. Pappe et Raws. syn. 46. — Schizaea australis Brack. expl. 302 pt.

Prom. bon. spei (Chamisso, Drège, Gaudichaud, Ecklon et Zeyher, Gueinzius, Kölbing). — P.

## 44. Aneimia Sw.

Aneimia Drègeana Kze.

Kze. Linn. 10. 493. 559. fil. I. 38. t. 20. Hook. ic. pl. 236. Pr. suppl. 85. Moore ind. 65. Pappe et Raws. syn. 46. Mett. fil. h. Lips. 115. Ettingh. farn. 239. t. 172. f. 7. 9. 10. — Aneimia Drègeana β. obtusissima Kze. fil. I. 38. t. 20. f. d. Moore ind. 65.

Prom. bon. spei, inter flumina Omsamwubo et Omsamcaba (Drège). — Natalia (Gueinzius, Krauss 370).

Aneimia tomentosa Moore.

Moore ind. 69. Mett. Ann. sc. nat. sér. V. II. 269.

var. α. Mett. l. c.

Aneimia Schimperiana Pr. suppl. 84. — Aneimia flexuosa Sw. Hochst. in pl. Schimp. — Aneimia tomentosa Sw. Schweinf. beitr. 219.

Angola (Welwitsch, iter angolense 164). — Abyssinia, prope Gafta (Schimper 1203), prope Tschelga (Steudner). — Am. c. a. As.

## 45. Mohria Sw.

Mohria caffrorum Dsv.

Dsv. Ann. Linn. VI. 198. Schldl. ad. 12. — Polypodium L. sp. 7905. syst. XIII. 788. Lam. enc. V. 541. — Pluk. Mant.

Digitized by Google

t. 350. f. 10. — Adiantum L. suppl. 447. Thbg. prod. cap. 173. fl. cap. 736. — Lonchitis Bernh. in Schrad. j. 1800. II. 124. — Osmunda marginalis Savigny in Lam. enc. IV. 655. — Osmunda thurifraga Commers. Bory it. I. 348. Sw. in Schrad. j. 1800. II. 105. Lam. enc. V. 855. — Mohria Sw. syn. 159. 385. t. 5. W. spec. V. 76. Klf. en. 44. Schk. 145. t. 143. Spr. syst. IV. 28. Boj. h. Maurit. 421. Hook. gen. 104 B. Kze. Linn. 10. 492. Pr. suppl. 96. J. Sm. Rees Cycl. vol. 23. Mett. f. h. Lips. 116. Lowe f. VIII. 70. Moore in Hk. journ. bot. V. 227. Moore ind. CXVII. Pappe et Raws. syn. 46. Ettingh. farn. 241. t. 175. f. 2. 8. — Mohria thurifraga var. achilleaefolia Moore Lowe f. tom. IX. t. 42 B. — Mohria crenata Dsv. Berl. Mag. V. 307. journ. bot. III. 268. Poir. suppl. III. 714.

Prom. bon. spei (Thunberg in herb. W. 19474. Sieber syn. f. 3. Lichtenstein, Krebs 355, Mundt et Maire, Bergius, Forbes, Ecklon, Drège, Ecklon et Zeyher 85, Burch. 3329. 3481 alii). — Natalia (Plant). — Ins. Borboniae (Aub. Thouars in hb. W. 19475. Sonnerat, Lepervanche, Mézière). — Ins. Mauritii (Commerson). — Madagascaria (Herb. Hooker). — Ins. Molucc. ?

---

## Ordo. VII. **Osmundaceae Mart.**

### 46. Todea Willd.

Todea barbara Moore.

Moore ind. syn. CXIX. — Acrostichum L. sp. 7792. Hort. Cliffort. 476. Amoen. Acad. I. 274. — Pluk. Alm. 156. t. 181. f. 5. — Lam. enc. I. 38. Poir. suppl. I. 129. — Osmunda Thbg. prod. 171. fl. cap. 732. J. Smith Rees Cycl. vol. 25. — Osmunda totta Sw. Schrad. j. 1800. II. 105; 1803. II. 300. — Todea Africana Willd. Act. Erford. 1802. 14. t. 3. f. 1. spec. V. 76. Bernh. in Schrad. j. 1800. II. 126. Sw. syn. 162. 388. Act. Holm. 1804. 179. t. 25. Poir. suppl. V. 314. Schk. 148. t. 147. Klf. en. 42. t. 1. f. 5. (pt.) Spr. syst. IV. 25 pt. Dsv. Ann. Linn. VI. 198 pt. Lk. fil. h. Berol. II. 147. Kze. Linn. 10. 491. Hook. Grev. enum. fil. III. 231. Hook. gen. 46 B. Lowe f. VIII. t. 67. Mett. f. h. Lips. 117. Pappe et Raws. syn. 47. Pr. suppl. 70 pt. Ettingh. farn. 244. t. 174. f. 2; t. 175. f. 6: t. 176. f. 1; t. 177. f. 9. 10.

Prom. bon. spei (Vieweg in hb. W. 19473, Meuron, Bergius, Chamisso, Sieber syn. fil. 1, Krebs 354, Ecklon un. it. 804, Drège, Burch. 4701. 5151, Breutel alii). — Natalia.

Digitized by Google

## 47. Osmunda L.

Osmunda regalis L.

L. sp. 7758. Sw. Schrad. j. 1800. II. 104. syn. 160. W. V. 97. Lam. enc. IV. 654. Poir. suppl. IV. 229. Schk. 147. t. 145. Desfont. fl. atlant. II. 399. J. Sm. Rees Cycl. vol. 25. Spr. syst. IV. 24. Desv. Ann. Linn. VI. 198. Milde Nov. Act. vol. 26. II. 278. Newm. brit. f. 308. Moore et Lindl. f. nat. print. 50. Lowe f. VIII. 3. Hook. brit. f. 45. Kze. Linn. 10. 491; 24. 248. Mett. fil. h. Lips. 116. Kl. et Garcke. Reise d. Pr. Waldemar. 29. Pappe et Raws. syn. 46. Beddom. F. S. Ind. 26. t. 76. Mett. Ann. sc. nat. sér. V. t. II. 270. Munby cat. 35. Milde fil. europ. 179. — Osmunda capensis Pr. suppl. 63. — Osmunda regalis v. spectabilis Pappe et Raws. syn. 47. — Osmunda Hilsenbergii Hook. et Grev. in Hook. bot. Misc. III. 230. Pr. suppl. tent. 64. etc.

Algeria, prope La Calle (Desfont., Bové). — Angola (Welwitsch). — Prom. bon. spei (Ecklon et Zeyher 4), inter flumina Omsamwubo et Omsamcaba (Drège). — Natalia (Plant, Gueinzius). — Madagascaria (Hilsenberg, Bojer, Lyall). — E. As. Am. s. c. a.

var. brevifolia Dsv.

Dsv. Ann. Linn. VI. 198. — Osmunda obtusifolia W. hb. Klf. en. 43. Spr. syst. IV. 24. Bory Bél. crypt. 17. Hk. Grev. in Hk. bot. misc. III. 231. Boj. h. Maur. 421. Pr. suppl. 65.

Ins. Mauritii (Sieber fl. mixt. 310. Thouars in herb. W. 19505. — Ins. Borboniae (Boivin). — Madagascaria.

---

## Ordo. VIII. Marattiaceae Klf.

## 48. Angiopteris Hoffm.

Angiopteris evecta Hoffm,

Hoffm. comm. Goett. XII. 29. t. 5. Bernh. in Schrad. j. 1800. II. 127. t. 2. f. 2. Sw. Schrad. j. 1800. II. 108; 1801. 306. t. 2. f. 4. syn. 166. 395. W. V. 69. Schk. 151. t. 150. Poir. suppl. I. 566. Klf. en. 34. t. 1. f. 4. Dsv. Ann. Linn. VI. 206. Spr. syst. IV. 24. Pr. suppl. 19. Kze. bot. z. VI. 492. Brack. expl. 310. Lowe f. VIII. t. 75. Benth. fl. Hongk. 440. Hook. fil. exot. t. 75. de Vriese Monogr. Maratt. 16. t. 3. 4. f. 10. Mett. Ann. sc. nat. sér. IV. XV. 87. Thwait.

Digitized by Google

Ceyl. 379. Beddom. F. S. Ind. 27. t. 78. Ettingh. farn. 245. t. 177. f. 12; t. 178. f. 19. Moore ind. 75. Barter in journ. Linn. soc. IV. 22. — Synonyma ad floram indicam et polynesicam pertinent.

Ins. Principis (Barter). — Ins. Borboniae. — Madagascaria. — As. P.

Angiopteris Madagascariensis de Vriese.

de Vriese Monogr. Maratt. 23. Moore syn. 76.

Madagascaria (Goudot).

## 49. Marattia Sm.

Marattia Boivini Mett.

Folia chartacea, laete viridia, glaberrima, bipinnata; petiolus 1½′ longus, stramineus, laevis; pinnae spathulato-oblongae; pinnulae basi utraque cuneata, adnata, subpetiolulatae elongatae vel lineares, acuminatae, inaequaliter serratae dentibus incurvis, apice obtuse vel anguste serratae, terminales maximae, ultra 4″ longae, 4—5‴ latae; nervi plerique furcati indivisisque intermixti, laxe dispositi, ⅔—1‴ distantes, sub angulo 65° decurrentes; sori medii fere inter costam et marginem, margini paullulum magis approximati, elliptici vel oblongi, laxe dispositi, dimidio quoque 8 loculari, basi pilis paleaceis, paucissimis circumdati. (Mett. msc.)

Mett. in sched. herb. Vindob. Ettingh. farn. 246. t. 178. f. 15. 16.

Madagascaria (Boivin).

Marattiae salicifoliae proxima, ab ea basi cuneata pinnularum, nec minus soris a margine remotis diversa.

Marattia fraxinea Smith.

Smith ic. ined. t. 48. Rees cycl. vol. 22. Bernh. Schrad. j. 1800. II. 133. Cav. dem. 280. n. 698. Sw. Schrad. j. 1800. II. 109. flor. Ind. occ. 1980. t. 28. f. h-l. syn. fil. 168. W. sp. V. 66. Schk. f. 154. t. 152. Spr. syst. IV. 23. Dsv. Ann. Linn. VI. 206. Hook. et Grev. in Hook. bot. misc. III. 225. Boj. h. Maur. 422. Pr. suppl. 8. Brack. expl. 312. de Vriese Monogr. Maratt. 3. Beddom. F. S. Ind. 27. t. 79. Ettingh. farn. 246. t. 278. f. 4. 5. — Myriotheca Lam. enc. IV. 48. illustr. t. 866. — Myriotheca fraxinifolia Bory it. I. 266. — Myriotheca sorbifolia Bory it. I. 267. Poir. suppl. IV. 48. Thwait. Ceyl. 379. — Marattia sorbifolia Sw. syn. 168. W. V. 67. J. Sm. in Rees Cycl. vol. 22. Spr. syst. IV. 24. Dsv. Ann. Linn. VI. 206. Boj. h. Maurit. 422. Pr. suppl. tent. 10. Hk. et Grev. in Hk. bot. misc. III. 225. Brack. expl.

Digitized by Google

312. de Vriese epim. ad. ind. sem. h. Lugd. Bat. 1851. Monogr. Maratt. 4. — Marattia oppositifolia J. Sm. in Rees Cycl. vol. 22. — Marattia macrophylla de Vriese Monogr. Maratt. 7. t. 3. f. 17. — Marattia cuneiformis de Vriese Monogr. Maratt. 7. t. 3. f. 21; t. 4. f. 21.

Ins. Fernando Po (Barter 1456. 2054. 1916, Mann 131). — Angola (Welwitsch, iter angolense 70. 84). — Ins. Comorae; ins. Mayotte (Boivin 2886). — Madagascaria (Bojer). — Ins. Borboniae (Bory in hb. W. 19455. 19454, Commerson, Carmichael, Goudot, Delessert, Perrottet, Boivin 917, Pappe. Ex herb. Mus. Paris). — Ins. Mauritii (Sieber syn. fil. 17, Bojer, Thouin, Carmichael, Boivin). — As. P.

## Marattia microcarpa Mett.

Folia membranacea, laete viridia, glabra, bipinnata; rhachis laevis; pinnae ad $1^1/_2{}'$ longae, lanceolatae, basi manifeste attenuatae; pinnulae sessiles, ad 5″ longae, 10‴ latae, e basi inferiore rotundata, superiore rotundato-truncata, elongato-oblongae vel sublanceolatae, sensim acuminatae, argute apice profundius serrulatae; infimae $1^1/_2{}''$ longae; nervi teneri, densi $^1/_3{}'''$ distantes, furcati, sub angulo 70° decurrentes; sori minuti elliptici, basi dentium approximati, dimidio quoque 6 loculari, approximati, sed non contigui, basi pilis paleaceis, teneris circumdati. (Mett. msc.)

Marattia elegans Hook. herb.

Mett. in sched. herb. Vindob. Ettingh. farn. 246. t. 117. f. 7. 8.

? Ins. Fernando Po (Barter). — ? Montes Cameroon (Mann 1393). — Ins. Nossibeh ad Madagascariam (Boivin). — Ins. Comorae; ins. Mayotte (Boivin). — P.

## Marattia purpurascens De Vriese.

De Vriese Mon. Maratt. 7. t. 3. f. 19; t. 4. f. 19. Hook. fil. exot. 65. — Marattia Ascensionis J. Sm. cat. f. cult. 79. — Marattia cristata J. Sm. cat. f. h. Kew. 1856. 8.

Ins. Ascensionis (J. D. Hooker).

## Marattia salicifolia Schrad.

Schrad. Goett. gel. Anz. 1818. 920. Hk. Grev. enum. fil. in Hk. bot. misc. III. 226. Kze. Linn. 10. 488. fil. I. 79. t. 38. Schldl. ad. 11. Pr. suppl. 8. de Vriese Monogr. Maratt. 4. Pappe et Raws. syn. 47. — Marattia Drègeana Pr. suppl. 9. de Vriese Mon. Maratt. 4. Ettingh. farn. 246. t. 179. f. 2. — Marattia Natalensis Pr. suppl. 9. de Vriese Monogr. Maratt. 5.

Prom. bon. spei (Hesse, Mundt et Maire), inter flumina Omsamcaba et Omsamwubo (Drège). — Natalia (Gueinzius). Ad Pieter Mauritzburg (Krauss).

Digitized by Google

## Ordo. IX. **Ophioglossaceae R. Br.**

**Auctore Alexandro Braun.**

### 50. Ophioglossum L.

Ophioglossum Bergianum Schldl.

Schldl. ad. I. 10. Spr. syst. IV. 22. Kze. Linn. X. 487. Hk. Grev. in Hk. bot. Misc. III. 219. Hook. ic. pl. t. 263. Mett. fil. h. Lips. 120. Pappe et Raws. syn. 48. Moore ind. syn. CXXV. — Ophioglossum pygmaeum Bergius msc. — Rhizoglossum Bergianum Pr. suppl. t. 48.

Prom. bon. spei; ad montem Leuweberg (Bergius), ad Kuilsrivier (Pappe).

Ophioglossum capense Schldl.

Schldl. ad. I. 9. t. 1. f. 2. (excl. var. β.) Klf. Linn. VI. 182. Kze. Linn. X. 487. Hk. bot. Misc. III. 217 pt. — Ophiogl. capense α. regulare Schldl. l. c. — Oph. nudicaule α. capense Mett. msc. — Oph. nudicaule Pr. t. 54. et auct. exp. Pappe et Raws. syn. 54 pt.

Prom. bon. spei, in desertis Karroo ad Olifantsriver (Mundt et Maire); inter flumina Bushmen et Koega (Ecklon et Zeyher, Burchell cat. 2803. ex Kze. l. c.)

Adn. Haec species Oph. polyphyllo tam similis est, ut dubites, an eam illius varietatem esse constituas, atque si Oph. polyphyllum cum Oph. vulgato conjungendum sit, nostra species etiam varietatem tantum sistit. Cellulae epidermidis magis flexuosae, quae in Oph. polyphyllo magis polyedricae sunt, characterem varietatis offerunt.

Ophioglossum fibrosum Schum.

Schum. K. Dansk. Vid. Afh. IV. 226. s. Beskr. af Guin. pl. 452. — Oph. brevipes Bedd. f. S. Ind. 23. t. 72. — Oph. aphrodisiacum Welw. in lit. ad Hook. — Oph. Wightii Hk. et Grev. in Hk. bot. Misc. III. 218. Presl. suppl. t. 51.

Guinea (Thonning). — Angola; distr. Pungo Andongo. In breve herbidis rupestribus silvarum primitivarum, imprimis inter Quibala et Cabanga (Welwitsch 1856. n. 31). — Ad flumen Niger (Barter n. 1445 ex Mett. msc.). — Prom. bon. spei, prope Macalisberg (?) (Burke t. Mett. in sched. herb.). — Ins. Nossi-beh? (Boivin t. Mett. in sched. herb.). — As.

Ophioglossum Gomezianum Welw. em. A. Br.

Pusillum, atroviride, opacum, folia quotannis plerumque 2 proferens, breviter vel brevissime petiolata. Lamina elliptica vel lanceolata, utrinque aequaliter attenuata, acuta, 9—18 mm. longa, petiolo multo breviori 3—6 mm. longo insidens, ecostata,

Digitized by Google

nervo mediano tenui, venarum maculis omnibus elongatis, interioribus majoribus divisis et appendiculatis, exterioribus sensim minoribus simplicibus parce appendiculatis vel vacuis. Stomata in utraque pagina. Epidermidis superioris et inferioris cellulis oblongis leniter flexuosis. Spica ad basin laminae emergens, modice pedunculata (pedunculo cum spica 17—31 mm.), breviter vel longe apiculata, sporangiis utrinque 8—10.

Oph. Gomezianum Welw. in lit. ad Hook. (foliis angustioribus). — Oph. ellipticum Welw. in lit. ad Hook. (forma latifolia.)

Angola, distr. Pungo Andongo. In pascuis breve herbidis juxta rivulos pr. Catete, sociale cum O. rubello et lusit. var. gracillimo Welw. 1857. n. 32. (forma latifolia) n. 35. (forma angustifolia.)

## Ophioglossum lancifolium Pr.

Pr. suppl. t. 50. — Oph. vulgatum var. vagum Mett. msc. ex parte.

Ins. Mauritii (Petit-Thouars ex Pr. l. c.) (Verisimiliter specimina ex hb. Mus. Paris. communicata atque in hb. Berol. asservata, quae cum diagnosi Presliana exacte congruunt, acl. Petit-Thouars quoque collecta sunt. — Ins. Borboniae (Commerson t. herb. Mett.).

Adn. Si haec species cum Oph. vulgato conjungeretur, Oph. vulgatum var. lancifolium nominanda esset.

## Ophioglossum Lusitanicum L.

L. sp. 7741. Bory Ess. Fort. 311. Cav. dem. 550. n. 1159. Lag. Ann. d. Cienc. V. 162. Lam. enc. IV. 561. illustr. t. 864. f. 3. Desf. fl. Atlant. II. 399. Sw. Schrad. j. 1803. II. 308. syn. 169. W. V. 59. Hk. Grev. ic. t. 80; in Hk. misc. III. 218. Pr. suppl. 50. Newm. brit. f. 231. Moore et Lindl. fil. nat. print. 51 C. Lowe f. VII. t. 65 B. Moore ind. syn. CXXV. Munby cat. 35. ed. II. 38. Milde fil. europ. 190.

Algeria (Desfont. in hb. W. 19440); prope Oran (Munby). — Regnum Maroccanum ad Tingidem (Salzmann). — Ins. Madeira, in regione Cacti (Holl ex Pr. l. c.), in maritimis ad Porta de Pargo (Lowe ex Pr. l. c.) »Madeira ex Hooker«. Mett. msc. — Ins. Caboverdicae, in ins. St. Nicolai in cacumine montis Gurdo (5000′) (Bolle). — Ins. St. Helenae ex Antomarch. flor. Helen. 267. et Roxb. Beat. St. Helen. 315. ex Mett. msc. — Angola, distr. Huilla. In pascuis editissimis (ad 5500 ped. alt.) de Morro de Lopollo versus planitiem Empalanca (Welw. a. 1860. n. 161). In declivibus apricis arenoso-humosis montium editiorum Praesidii, imprimis in editis de Pedra Cazella. Distr. Pungo Andongo (Welw. a. 1857. n. 34. Oph. luso.africanum Welw. in lit. ad Hook. forma major). — E. As.

var. gracillimum A. Br.

Oph. gracillimum Welw. in lit. ad Hook. 1859. — Lamina anguste lanceolata vel linearis, basi vix attenuata, acutissima,



Digitized by Google

venis inconspicuis. Petiolus lamina plerumque longior. Spica e basi laminae emergens pedunculo laminam vix exsuperante insidens.

Angola, distr. Pungo Andongo. In pascuis breve herbidis juxta ripas rupestres rivulorum prope Catete (Welw. 1857. n. 36).

## Ophioglossum nudicaule L.

L. suppl. 443. Sw. Schrad. 1800. II. 112. syn. 169. 397. t. 4. f. 2. W. V. 59. Poir. suppl. IV. 164. Pr. suppl. t. 54 pt. Pappe et Raws. syn. 47 pt. — Oph. Lusitanicum Thbg. prod. 171. fl. cap. 731. (?) — Oph. capense β. nudicaule Schldl. ad. I. 9. Kze. Linn. 10. 487. Hk. Grev. in Hk. bot. Misc. III. 217. — Oph. capense Sw. Schrad. j. 1803. II. 308.

Prom. bon. spei.

Adn. Species Linneana obscura, denuo observanda et enucleanda. Auctores recentiores sub nomine O. nudicaulis complures species confundunt.

## Ophioglossum opacum R. Br.

R. Br. in herb. Carmichaelii. Carm. in journ. Linn. soc. XII. 509. Hk. Grev. ic. t. 40 B. et in Hk. bot. misc. III. 219. Pr. suppl. 51. — Oph. alpinum Carm. msc.

Ins. Tristan d'Acunha (Carmichael). — Ins. St. Helenae (Capt. Haughton sec. sched in hb. Mett.).

Adn. Species parum cognita, laminae sterilis forma Oph. reticulato, rhizomate tuberoso Oph. fibroso comparanda.

## Ophioglossum ovatum Bory.

Bory it. II. 206. Sw. syn. 169. W. V. 58. (excl. syn. Rumph.) Poir. enc. suppl. IV. 164. Spr. syst. IV. 22. (excl. syn. Schldl.) Hk. Grev. in Hook. bot. Misc. III. 216. Bojer h. Maur. 422. Pr. suppl. t. 49.

Ins. Borboniae (Bory in hb. W. 19439). — Ins. Mauritii (Bojer ex Pr. l. c.).

Adn. Haec species Ophioglosso sarcophyllo formâ laminae simillima, sed tenuis, siccitate non rugosa, translucens, nervos facile demonstrans inque lamina superiore stomatibus praedita. An forma vel status Oph. sarcophylli? Mettenius hanc speciem cum Oph. vulgato var. reticulato conjungit.

## Ophioglossum palmatum L.

L. sp. 7744. — Plum. t. 163. — Lam. enc. IV. 562. Sw. Schrad. journ. 1800. II. 112. syn. 170. Willd. act. erford. 1802. 19. spec. V. 61. Spr. syst. IV. 22. Dsv. Ann. Linn. VI. 194. Kze. Linn. IX. 14. Kl. Linn. XVIII. 529. Sturm in Mart. fl. Bras. I. 145. t. 9. Mart. et Gal. foug. Mexique

Digitized by Google

14. — Cheiroglossa Pr. suppl. t. 57. Kl. Linn. XX. 437. — Ramondia Mirbel ex Pr. l. c.

Ins. Borboniae (Bory sub Oph. Mezieri Bory; Lepervanche). — Ins. Sechellae (Pervillé in hb. Paris. sub. Oph. multifido). — Am. c. a.

## Ophioglossum pendulum L.

L. sp. 1518. Cav. dem. 551. n. 1160. Sw. Schrad. j. 1800. II. 112. syn. 170. Lam. enc. IV. 562. W. sp. V. 60. Spr. syst. IV. 22. Dsv. Ann. Linn. VI. 194. Bory Bél. crypt. 13. Hk. Grev. ic. t. 19. in Hk. bot. msc. III. 219. Hook. gard. f. t. 33. Bl. enum. 260. Boj. h. Maur. 423. Hook. et Arn. in Bot. Beech. voy. 73. Dcne. Ann. d. Mus. III. 349. Brack. expl. 316. Mett. f. h. Lips. 120. Moore ind. syn. CXXV. Meller journ. Linn. soc. VII. 60. Beddom F. S. Ind. 88. t. 269.

Ins. Mauritii (P. Thouars in hh. W. 19444, Sieber syn. f. 16. flor. mixt. 278, Bojer, Bélanger). — Ins. Borboniae (Boivin). — Madagascaria (Meller). — As. P.

## Ophioglossum reticulatum L.

L. sp. 1518. — Plum. fil. t. 164. — Lam. enc. IV. 562. illustr. t. 864. f. 2. Willemet hb. Maur. 61. Sw. syn. 170. W. sp. V. 60. Kze. Linn. IX. 12. bot. z. IV. 417. Arrab. fl. flum. XI. t. 52. Hk. et Grev. ic fil. t. 20. et in Hk. bot. Misc. III. 217. Presl. suppl. t. 52. Webb spic. gorg. 192. Pappe et Raws. syn. 48. Moore ind. syn. CXXV. Sturm in Mart. fl. brasil. I. 143. Griseb. fl. brit. Westind. 649. Wawra Brasil. 187. Milde fil. europ. 190. — Ophioglossum vulgatum var. reticulatum Mett. msc. — Oph. cordifolium Roxb. crypt. pl. 13. Wall. cat. 47.

Ins. Caboverdicae; ins. St. Nicolai (Bolle). — Montes Cameroon (Mann t. Mett. in sched. herb.). — Angola; distr. Ilha de St. Thomé in sinu Biafra, in silvestribus graminosis juxta rivulorum margines insulae Thomé sub aequatore (Welw. a. 1860. n. 30). Distr. Pungo Andongo, ad juga editiora montis Pedra de S. Antonio (Welw. a. 1856. n. 28.) et in pascuis montis Pedra de Quinza (Welw. 1857. n. 27). — Ins. Tristan d'Acunha (ex Mett. msc.). — Natalia (Gueinzius ex Mett. msc. Krauss ex Pr. l. c.). — Ad flumen Zambeze (Kirk sec. sched. in hb. Mett.). — Ins. Mauritii (Commerson, Sieber syn. f. 19. flor. mixt. 279, Bojer, Bélanger). — Ins. Borboniae (Bory in hb. W. 19443, Delessert a. 1816, Boivin 918). — Am. c. a. As. P.

## Ophioglossum rubellum Welw.

Welw. in lit. ad Hook. 1859.

Pusillum, totum colore rubro vel dilute cupreo tinctum, folia quotannis 2, altero plerumque sterili proferens. Lamina spathulato-obovata, ovata aut suborbiculata, 5—10 mm. longa, obtusa vel brevissime apiculata, supra opaca minutissime verruculosa, subtus laevigata, petiolo plerumque paulo breviori insidens, ecostata, nervo mediano tenui venarum maculis



Digitized by Google

interioribus majoribus utrinque c. 3, exterioribus minoribus pluribus 2—3 seriatis. Venarum maculae majores passim divisae et ramis liberis divergentibus appendiculatae; maculae minores simplices, parce appendiculatae vel vacuae. Stomata in utraque pagina. Epidermidis superioris cellulae polygonales, latitudine parum longiores, inferioris magis elongatae et subflexuosae. Spica ad basin vel paulo infra basin laminae emergens, longe pedunculata (pedunculo cum spica 17—40 mm.), breviter apiculata, sporangiis utrinque 6—10.

**Angola, distr. Pungo Andongo. In pascuis brevi herbidis juxta ripas rivuli de Catete nec non prope Candumba ad flumen Cuanza (Welw. a. 1857. n. 33).**

## Ophioglossum sarcophyllum Dsv.

Dsv. Ann. Linn. VI. 193.

Folia quotannis 2, carnosa, discoloria, infra pallida, siccitate subrugosa, petiolata; petiolus ad 6″ longus; lamina ad 3″ longa, $1^1/_2$″ lata, e basi late cuneata, elliptica, obtusa; costa immersa tenerrima; maculae utrinque 5—6 seriatae, partim appendiculatae, partim in maculas secundarias divisae, internae amplae, externae sensim minores; epidermis paginae superioris e cellulis subpolyedricis formata, stomatibus destituta; spica e basi laminae abiens, pedunculata, pedunculo 2—3″ longo, utrinque sporangia numerosa gerens, breve cuspidata. (Mett. msc.)

**Ins. Borboniae (Boivin ex Mett. msc.).**

Nervatura laxa cum O. Moluccano Schldl. congruens, stomatibus in epidermide paginae superioris laminae omnino nullis ab eo satis diversum videtur. Specimen Desvauxii quoad hunc characterum examinandum remanet, descripto minus, sed forma laminae saltem omnino congruit. (Mett. msc.) — Desvaux collectorem hujus speciei non commemorat atque dubitat, an Oph. ovatum Bory. W. synonymum addendum sit. Specimina herb. Kunth. ex herb. Mus. Paris. communicata ex insula Borboniae (»plaine des osmondes«) verisimiliter a Bory collecta sunt aeque ac specimina Boryana Ophioglossi ovati in hb Lenormand (t. Mett.) Cf. praeterea de hac specie adnotat. in Oph. ovatum. (A. Br. msc.)

## Ophioglossum vulgatum L.

L. sp. 7740. Cav. dem. 550. n. 1158. Lag. Ann. Cienc. V. 161. Sw. syn. 169. W. V. 58. Hook. gen. t. 59 B. Milde fil. eur. 188. etc.

**Ins. Madeira. — E. Am. s.**

Adn. Formae maderenses Oph. vulgati ad varietatem polyphyllam aut valde accedunt aut omnino pertinent.

Digitized by Google

var. polyphyllum Mett. msc.; Milde Fil. eur. 188.

Ophioglossum polyphyllum A. Br. in Seub. fl. Azor. 17. Bolle Bonpl. III. 124. Wats. Lond. journ. VI. 394. Schweinf. beitr. 219. Milde bot. z. 24. 401. — Ophioglossum azoricum Pr. suppl. t. 49. — Ophiogl. cuspidatum Milde bot. z. 22. 107. — Ophiogl. arabicum Ehrenb. in sched. hb. Berol.

Ins. Madeira. — Ins. Caboverdicae; ins. St. Antonii in »Costa do Sul« prope Pixino (Bolle) — Abyssinia, prope Erren (4300′) (Schimper 894. 2228). — Nubia, ins. Macaur prope Ras Rauai (Schweinfurth. Haec specimina magis coriacea, nervis vix conspicuis).

Adn. Specimina Azorica nervatura simpliciore paulo recedunt.

---

## Fam. II. **Equisetaceae DC.**

### 51. Equisetum L.

Equisetum arvense L.

L. sp. 1516. W. V. 1. Milde Act. Acad. Leop. Carol. vol. XXXII. p. 218. fil. europ. 215.

Ins. Canarienses; ins. Teneriffa (Bolle). — Prom. bon. spei (Bergius). — E. As. Am. s.

Equisetum ramosissimum Desf.

Desf. flor. atlant. II. 398. 399. Milde Monogr. gen. Equiset. in Act. Acad. Leop. Carol. vol. XXXII. 428. fil. europ. 235.

Algeria (Bory, Jamin, Salle). — Mauritania, prope Tingidem. — Ins. Canarienses (Webb, Bolle, Bourgeau). — Ins. Caboverdicae. — Prom. bon. spei (Ecklon et Zeyher). — Natalia (Sanderson). — Ad flumen Zambeze (Kirk). — Madagascaria (Pervillé). — Ins. Borboniae (Bory, Boivin, Carmichael). — Ins. Mauritii (Boivin, Néraud, Commerson). — E. As. Am. s. c. a.

var. 1. virgatum Al. Br.

Al. Br. flora 1839. 305. Milde l. c. 435.

Montes Simenses, Abyssiniae (Schimper 438).

var. 2. subverticillatum Al. Br.

Al. Br. flora 1839. 305. Milde l. c. 435.

Abyssinia, ad Ataba prope Abbena (Steudner). — Algeria (Bové).

var. 3. altissimimum Al. Br.

Al. Br. msc. Milde l. c. 438.

Regnum Tunetanum, ad radices Djebel Zaghouan (Kralik 369), ad radices montis Zowan (Desfont).

var. 4. capense Milde.

Milde l. c. 442. Equis. capense Bory msc.

Prom. bon. spei (Bory, Drège, Zeyher).

Digitized by Google

var. 5. Burchellii Milde.

Milde l. c. 443. Equisetum Burchellii Vaucher. Mon. d. Prêles.

Prom. bon. spei (Burchell cat. 2464). — Angola, Mossamedes (Welwitsch n. 176).

var. 6. Lohseanum Milde.

Milde l. c. 446.

Algeria, Oran (Durando).

var. 7. Drègeanum Milde.

Milde l. c. 447. — Equisetum Thunbergii Wickstr. K. Vet. Handl. Stockh. 1821. II. 4. — Equisetum giganteum Thbg. prod. 171.

Prom. bon. spei (Thunberg, Drège).

var. 8. arcuatum Milde.

Milde l. c. 448.

Prom. bon. spei, prope Gekan (Drège).

var. 9. Abyssinicum Milde.

Milde l. c. 448.

Abyssinia, prope Adoa (Schimper 929).

var. 10. flagelliferum Milde.

Milde l. c. 449. — Equisetum incanum Webb et Berth. phyt. Can. II. 457.

Ins. Canarienses (Webb). — Natalia, ad flumen Togela (Gueinzius).

var. 11. incanum Milde.

Milde l. c. 450. — Equisetum ramosissimum L. v. Buch. Allgem. uebers. d. Canar. 1819.

Ins. Canarienses; ins. Gran. Canaria (Ch. Smith).

var. 12. Boryanum Al. Br.

Al. Br. msc. Milde l. c. 450.

Ins. Mascarenae (Bory in hb. W. 19336. f. 4).

var. 13. distortum Milde.

Milde l. c. 451.

Prom. bon. spei (Mundt et Maire).

var. 14. Boivini Milde.

Milde l. c. 452. Equisetum arboreum Comm. msc.

Ins. Borboniae (Commerson, Boivin 795).

var. 15. Natalense Milde.

Milde l. c. 452. — Equisetum natale Fée msc.

Natalia (Gueinzius).

Digitized by Google

Equisetum Telmateja Ehrh.

Ehrh. Beitr. 2. 159. Milde Monogr. gen. Equiset. in Act. Acad. Leop. Carol. vol. XXXII. p. 240. fil. europ. 218.

Algeria (Bové). — Mauritania prope Tingidem. — Ins. Madeira; ins. Teneriffa. — E. As. Am. s.

---

# Fam. III. **Lycopodiaceae Mett.**

## **52. Lycopodium L.**

Lycopodium ambiguum Schrad.

Schrad. Goett. gel. Anz. 1818. 920. Schldl. ad. 8. Spr. Monogr. I. 110. II. 50. Pappe et Raws. syn. 53.

Prom. bon. spei (Hesse).

Lycopodium carolinianum L.

L. sp. 1567. Dill. t. 62. f. 6. Lam. enc. III. 649. Sw. Schrad. j. 1800. II. 117. syn. 180. Mich. flor. bor.-amer. II. 283. W. V. 14. Kze. Linn. IX. 7; X. 485. Spr. syst. IV. 13. Dsv. Ann. Linn. VI. 184. Boj. h. Maurit. 424. Spring. Monogr. I. 98. II. 46. Moore in Hk. j. bot. V. 227. Pappe et Raws. syn. 48. Hk. flor. Tasm. II. 154. — Lycopodium repens Sw. syn. 180. W. V. 15. Poir. suppl. III. 542. Spr. syst. IV. 13. Dsv. Ann. Linn. VI. 184. Schldl. ad. 5. t. 4. Bory Duperr. 245. Spring. in Mart. fl. bras. I. 115. — Lepidotis Pal. Beauv. prod. 109. — Lycopodium affine Bory it. II. 204. 262. — Lycopodium ericetorum Schrad. Goett. gel. Anz. 1818. 920.

Regiones tropicae Africae occidentalis (Curror). — Angola (Welwitsch, iter Angolense 167. 168). — Prom. bon. spei (Hesse, Mundt et Maire, Burchell 8091, Ecklon et Zeyher, Drège). — Natalia (Plant. 329. f.) — Ins. Mauritii (Commerson, Bojer). — Ins. Borboniae (Bory in hb. W. 19346, Commerson). — Madagascaria (Goudot, Bernier, Lyall). — Am. s. c. a.

Lycopodium cernuum L.

L. sp. pl. 1566. Sw. Schrad. j. 1800. II. 116. syn. 178. W. V. 30. Wall. cat. 130. Klf. en. 15. Bory Duperr. 246. Schldl. ad. 5. Roxb. Beat. St. Helen. 311. Antom. fl. Helen. 268. Pritch. cat. Helen. 19. Arrabida fl. flum. XI. t. 112. Dill. t. 63. f. 10. Bory Bél. II. 8. Spr. syst. IV. 15. Dsv. Ann. Linn. VI. 183. Pr. rel. Haenk. I. 80. Boj. h. Maur. 424. Spring. bot. z. 1838. I. 163. flor. bras. I. 114. Monogr. I. 79. II. 37. Brack. expl. 325. Moore in Hk. j. bot. V. 228.

Digitized by Google

J. Sm. Bot. Herald. 243. 344. 431. Sturm fl. chil. 49. Pappe et Raws syn. 49. Mett. Ann. sc. nat. sér. IV. XV. 87. sér. V. III. cah. 5. 39. Griseb. fl. brit. Westind. 647. Benth. fl. Hongk. 436. Wawra Brasil. 186. Milde fil. eur. 254. etc.

Sierra Leone (Vogel, Barter). — Montes Cameroon (Mann). — Ins. Fernando Po. — Angola (Welwitsch, iter angolense 10. 170). — Ins. St. Helenae (Roxburgh, D'Urville, Lesson, Blandowick). — Ins. Ascensionis (D'Urville). — Prom. bon. spei (Mundt et Maire, Drège, Zeyher 1887). — Natalia (Krauss, Plant 329 e.) — Madagascaria (Bernier). — Ins. Mauritii (Sieber syn. f. 15. Wallich). — Ins. Sechellae (Kersten 79). — Am. c. a. As. P.

Lycopodium clavatum L.

L. sp. 1564.

var. inflexa Spring.

Spring. Monogr. I. 89. II. 42. — Lycopodium inflexum Sw. syn. 179. W. V. 15. Poir. suppl. III. 542. Spr. syst. IV. 13. Dsv. Ann. Linn. VI. 184. Boj. h. Maur. 424. Pappe et Raws. syn. 49. — Lepidotis Pal. Beauv. prod. 109. — Lycopodium clavatum var. Moore in Hk. j. bot. V. 228. — Lycopodium clavatum var. borbonicum Bory it. II. 204.

Prom. bon. spei (Ecklon et Zeyher, Sieber). — Natalia (Plant 329 i.) — Ins. Comorae; ins. Angasilia (Kersten 78). — Madagascaria (Goudot). — Ins. Borboniae (Bory in hb. W. 19348, Boivin 922. Ad. Delessert, Commerson, Richard). — Ins. Mauritii (Gaudichaud).

Lycopodium diaphanum Sw.

Sw. syn. 179. W. V. 23. Poir. suppl. III. 545. Spr. syst. IV. 15. Dsv. Ann. Linn. VI. 182. Carm. Linn. Trans. 12. 509. Hk. Grev. ic. t. 227. Spring. Monogr. Lyc. I. 93. II. 44. — Lepidotis Pal. Beauv. prod. 108. — Lycopodium clavatum Aub. Thouars flor. Trist. d'Acunha 30.

Ins. Tristan d'Acunha (Aub. Thouars in hb. W. 19358. Carmichael, Mundt).

Lycopodium epiceaefolium Dsv.

Dsv. enc. bot. suppl. III. 559. Ann. Linn. VI. 181. Boj. h. Maur. 423. Spr. Monogr. I. 51. — Lycopodium verticillatum W. V. 48. Poir. suppl. III. 555. Wall. cat. 119. 7088. Bory Bél. II. 7. (?) — Plananthus P. Beauv. prod. 112. — Lycopodium protensum Hook. et Grev. enum. f. in Hook. bot. misc. III. 105.

Madagascaria (Goudot). — Ins. Borboniae (Bory in hb. W. 19412, Néraud, Richard, Delessert, Gaudichaud). — Ins. Mauritii (Sieber syn. f. 11, Wallich).

Lycopodium gnidioides L.

L. suppl. 448. Sw. Schrad. j. 1800. II. 114. syn. 174. W. V. 47. Wall. cat. 135. Schldl. ad. 7. t. 2. Klf. in Linn. VI. 181. Spr. syst. IV. 20. Dsv. Ann. Linn. VI. 181. Bory Bél.

Digitized by Google

II. 7. Kze. Linn. 10. 486. Hk. Grev. ic. t. 50. Ad. Brong. vég. foss. II. t. 2. f. 1. Boj. h. Maur. 424. Spring. Monogr. I. 55. II. 24. Pappe et Rawson syn. 49. — Plananthus P. Beauv. prod. 110. — Lycopodium funiculosum Lam. enc. III. 649. Sw. Schrad. j. 1800. II. 117. syn. 180. W. V. 25. — Lycopodium pinifolium Klf. enum. 7. — Lycopodium flagelliforme Schrad. goett. gel. anz. 1818. 920. — Lepidotis funiculosa P. Beauv. 108.

?Ins. Fernando Po. — ?Montes Cameroon (Mann 1409. 2042). — Prom. bon. spei (Mundt et Maire, Bergius, Ecklon et Zeyher, Burch. 5725, Lalande, Chamisso, Drège, Villette). — Natalia (Gueinzius). — Madagascaria (Bernier). — Ins. Nossi-Dhali (Pervillé). — Ins. Borboniae (Bory, Richard, Delessert, Gaudichaud, Boivin 924). — Ins. Mauritii (Sieber syn. fil. 13. fl. mixt. 275, Heyne in hb. W. 19408, Thouars in hb. W. 19360, Wallich).

## Lycopodium magellanicum Sw.

Sw. syn. 180. W. V. 15. Gaud. Ann. Linn. 1825. 597. Freyc. voy. 282. D'Urville fl. d. Malouin. 26. Bory Duperr. 245. Spr. syst. IV. 13. Dsv. Ann. Linn. VI. 184. Spring. Monogr. I. 96. II. 46. Brack. expl. 319. Carm. Trans. Linn. Soc. 12. 509. Sturm. fl. chil. 50. etc.

Ins. Tristan d'Acunha (Carmichael). — Ins. hemisph. austr. extratrop.

## Lycopodium obtusifolium Sw.

Sw. syn. 177. W. V. 12. Spr. syst. IV. 12. Dsv. Ann. Linn. VI. 181. Boj. h. Maur. 424. Spring. Monogr. I. 67. — Lepidotis P. Beauv. prod. 109.

Ins. Borboniae (Bory in hb. W. 19344). — Ins. Mauritii (Bory).

## Lycopodium ophioglossoides Lam.

Lam. enc. III. 646. Sw. Schrad. j. 1800. II. 117. syn. 177. W. V. 13. Spr. syst. IV. 12. Dsv. Ann. Linn. VI. 182. Spring. Monogr. I. 69. Moore ind. syn. CXXVI. — Lycopodium longifolium Sw. syn. 177. W. V. 12. Poir. suppl. III. 541. Spr. syst. IV. 12. Dsv. Ann. Linn. VI. 182. — Lepidotis P. Beauv. prod. 109.

Ins. Borboniae (Commerson, Richard, Thouars, Gaudichaud).

## Lycopodium passerinoides Humb. et Bonpl.

H. B. Kth. Nov. gen. I. 41. Spr. syst. IV. 21. Dsv. Ann. Linn. VI. 180. Spring. Monogr. I. 53. II. 23. — Reliqua synonyma ad floram americanam pertinent.

Ins. Fernando Po (Mann 384). — Montes Cameroon (Mann 1408. 2041). — Am. c. a.

## Lycopodium Phlegmaria L.

L. sp. pl. 1564. Dill. musc. t. 61. f. 5. Breyn cent. t. 92. Forst. prodr. n. 478. Lam. enc. III. 646. Sw. Schrad. j.

Digitized by Google

1800. II. 115. syn. 176. Lour. fl. cochinch. ed. germ. II. 837. W. V. 10. Roxb. crypt. pl. 9. Wall. cat. 133. Gaud. Freyc. 281. Bory Duperr. 244. Spr. syst. IV. 12. Dsv. Ann. Linn. VI. 181. Ad. Brongn. vég. foss. II. t. 1. f. 3. Bory Bél. II. 7. Bl. enum. II. 261. Boj. h. Maur. 424. Spring. Monogr. I. 63. II. 29. Brack. expl. 326. — Synonyma ad floram indicam s. polynesicam pertinent.

Ins. Principis (Barter). — Montes Cameroon (Mann). — Africa occidentalis tropica (Curror). — Madagascaria (Chapelier, Goudot, Thouars). — Ins. Borboniae (Hb. W. 19339. f. 2. 19343. Boivin 921). — Ins. Mauritii (Sieber syn. f. 147. Bojer, Telfair). — As. P. Am. c.

## Lycopodium proliferum Bl.

Bl. enum. pl. jav. II. 265. Spring. Monogr. I. 34. II. 15. — Lycopodium madagascariense Dsv. in hb. Juss.

Madagascaria (Brugnières, Bernier). — Ins. Mahé (Pervillé). — As.

## Lycopodium Saururus Lam.

Lam. enc. III. 653. Sw. Schrad. j. 1800. II. 115. syn. 176. Bory it. I. 344. t. 16. f. 1. W. V. 50. Spr. syst. IV. 21. Dsv. Ann. Linn. VI. 180. Boj. h. Maurit. 423. Spring. Monogr. I. 21. II. 6. Mett. fil. Lechl. 27. Ann. sc. nat. sér. V. vol. III. cah. v. 37. — Plananthus P. Beauv. prod. 100. — Lycopodium crassum H. et B. in W. V. 50. Kth. nov. gen. I. 33. syn. I. 97. Poir. suppl. III. 556. Spr. syst. IV. 21. Dsv. Ann. Linn. VI. 180. Pr. rel. Haenk. I. 82. Hk. fil. J. Linn. Soc. VII. 235. — Lycopodium elongatum Sw. syn. 175. Hk. Grev. ic. t. 224. — Lycopodium Selago v. Saururus Hook. fl. ant. 394.

Montes Cameroon (Mann 1410. 2039). — Prom. bon. spei (Ecklon et Zeyher). Ins. Borboniae (Bory in hb. W. 19416, Commerson, Thouars, Kersten 77). — Ins. Mauritii (Aub. Thouars). — Am. c. a.

## Lycopodium Selago L.

L. sp. 1565. Milde fil. 252.

var. spinulosum Spring.

Spring. Monogr. I. 19. II. 5. — Lycopodium suberectum Lowe in Hk. j. bot. I. 23. — Lycopodium insulare Carm. Linn. Trans. 12. 509. — Lycopodium axillare Roxb. in Beats. St. Helen. 312. Antom. fl. Helen. 268. Prit. cat. Helen. 19.

Ins. Madeira. — Ins. St. Helenae. — Ins. Tristan d'Acunha (Carmichael). — E. Am c.?

## Lycopodium trichiatum Bory.

Bory it. I. 350. Sw. syn. 179. W. V. 16. Poir. suppl. III. 543. Dsv. Ann. Linn. VI. 184. Spring. Mon. I. 91. II. 43. —

Digitized by Google

Lycopodium trichiatum var. Borbonicum Spring. l. c. 92. — Lycopodium trichophyes Spr. syst. IV. 13. — Lycopodium ciliatum Sw. syn. 179. — Lepidotis P. Beauv. prod. 108. — Reliqua synonyma ad floram americanam pertinent.

Ins. Borboniae (Bory in hb. W. 19349. Commerson. Aub. Thouars). — Am. c. a.

Lycopodium ulicifolium Vent.

Ventenat in Sw. syn. 177. W. V. 27. Spr. syst. IV. 15. Dsv. Ann. Linn. VI. 183. Spring. Monogr. I. 51. II. 22. — Lycopodium acutifolium Dsv. enc. suppl. III. 559. Ann. Linn. VI. 181. — Lypodium Hookeri Wall. cat. 116. Hook. et Grev. ic. t. 185. — Lycopòdium pulcherrimum Wall. in herb. 1823. — Lycopodium abietinum Dsv. in herb. Mus. Paris.

Madagascaria (Pervillé). — Ins. Borboniae (Richard, Perrottet, Carmichael). — Ins. Mauritii (Commerson). — As.

Lycopodium verticillatum L.

L. suppl. 448. Sw. Schrad. j. 1800. II. 114. syn. 175. flor. Ind. occ. 1575. Wall. cat. 179. Spr. syst. IV. 21. Dsv. Ann. Linn. VI. 181. Hk. Grev. en. fil. in Hk. bot. misc. III. 105. Boj. h. Maur. 423. Spring. Monogr. I. 46. II. 21. Brack. expl. 324. Moore in Hk. j. bot. V. 227. Pappe et Raws. syn. 50. Mett. Ann. sc. nat. sér. V. t. III. cah. 5. 40. — Lycopodium acerosum Sw. syn. 175. flor. Ind. occ. III. 1575. Spr. syst. IV. 21. Boj. h. Maurit. 423.

Natalia (Gueinzius, Plant 329 g.). — Ins. Borboniae (Bory in hb. W. 19422. Commerson, Richard, Gaudichaud). — Am. c. a. P.

## 53. Psilotum Sw.

Psilotum flaccidum Wall.

Wall. cat. 45. Spring. Monogr. II. 271. — Psilotum complanatum Bl. enum. II. 272. — Psilotum Pervilléi Dcne. in hb. Mus. Paris.

Mahé ad Madagascariam (Pervillé). — As. P.

Psilotum triquetrum Sw.

Sw. Schrad. j. 1800. II. 109. syn. 187. Rees Cycl. vol. 28. Nutt. N. Amer. pl. II. 248. R. Br. prod. I. 164. Dsv. Ann. Linn. VI. 192. Hook. Grev. enum. fil. in Hook. Bot. Misc. III. 362. Wall. cat. 46. Spring. in Endl. et Mart. fl. bras. I. 133. Hk. et Arn. Beech. voy. 102. Spring. Monogr. Lycop. II. 269. C. Müll. bot. z. 14. 217. Pappe et Raws. syn. 50. Hook. gen. t. 87. Cunningh. in Hook. Lond. j. I. 121. Hook. f. exot. 63. Mart. et Gal. foug. Mex. 13. Griseb. fl.

Digitized by Google

brit. Westind. 648. Benth. flor. Hongk. 436. — Lycopodium nudum L. sp. 1564. Lam. enc. III. 649. Bory it. I. 214. 283. Forst. prod. 86. — Psilotum nudum Griseb. pl. carib. 130. — Ipphia polyquetra Noronha prod. phyt. in Aub. Thouars Mél. bot. et voy. 1811. — Tristeca aristata Pal. Beauv. in hb. Deless. — Buchozia furtiflora Commerson msc. in hb. Mus. Paris. — Garsaultia minutiflora Comm. in hb. Pal. Beauv. — Bernhardia Mascarenica C. Müll. bot. z. 14. 217. — Bernhardia capensis C. Müll. bot. z. 14. 217. — Reliqua synonyma ad floram americanam, indicam, polynesicam referenda sunt.

Senegambia (Perrottet 727). — Ins. Ascensionis (Lesson, J. D. Hooker). — Natalia (Gueinzius). — Madagascaria (Thouars, Bernier). — Ins. Borboniae (Commerson in hb. W. 19436, Olivier, Delessert, Gaudichaud, Boivin 920). — Ins. Mauritii (Bojer, Richard, Telfair, Perrottet, Grey, Wallich). — Ins. Diego Garcia (Bouton). — Am. c. a. As. P. NH.

---

## Fam. IV. **Selaginellaceae Mett.**

### 54. Selaginella Pal. Beauv.

Selaginella abyssinica Spring.

Spring. Monogr. II. 99. Schweinf. beitr. 218. Conf. Sel. versicolor Spring.

Abyssinia (Quartin Dillon); in valle Mai-Mezano prope Djeladjeranne (Schimper 1444), prope Debra-Eski (Schimper 49), in monte Salamba prope Keren, in regione Bogos (Steudner), inter Tschelga et Woechni (Steudner).

Selaginella brachystachya Spring.

Spring. Monogr. II. 256. — Lycopodium Hook. et Grev. in bot. misc. III. 107.

Ins. Mauritii (Bojer).

Selaginella cataphracta Spring.

Spring. bot. z. 1838. I. 209. Spring. Monogr. II. 182. — Lycopodium W. V. 43. Spr. syst. IV. 19. Dsv. Ann. Linn. VI. 188. Bory Bél. II. 9. — Lycopodium fruticulosum Bory in. W. V. 41. Spr. syst. IV. 18. Dsv. Ann. Linn. VI. 188.

Ins. Borboniae (Bory, Flügge in hb. W. 19398, Thouars).

Selaginella cathedrifolia Spring.

Spring. Monogr. II. 112.

Africa occidentalis tropica (Curror).

Digitized by Google

### Selaginella concinna Spring.

Spring. bot. z. 1838. I. 188. Monogr. II. 199. — Lycopodium Sw. syn. 182. 408. W. V. 40. Spr. syst. IV. 18. — Lycopodium apiculatum Dsv. enc. suppl. III. 551. Spr. IV. 16. Dsv. Ann. Linn. VI. 188. — Lycopodium pectinatum Lam. enc. bot. III. 651. Dsv. Ann. Linn. VI. 188. — Lycopodinm sinuosum Dsv. enc. suppl. III. 558. Dsv. Ann. Linn. VI. 188. — Lycopodium sparsiflorum Dsv. Ann. Linn. VI. 188. Enc. bot. suppl. III. 553. — Stachygynandrum penniforme Pal. Beauv. prod. 112.

Madagascaria (Bernier). — Ins. Borboniae (Bory in hb. W. 19390, Thouars, Richard). — Ins. Mauritii (Commerson, Sieber syn. fil. 12. fl. mixt. 274, Wallich, Bojer). — As.

### Selaginella cupressina Spring. ex parte.

Spring. bot. z. 1838. I. 211. Monogr. Lycopod. II. 113. pt. — Lycopodium W. V. 43. Spr. syst. IV. 19. Bory Bél. II. 9.

Ins. Borboniae (Bory in hb. W. 19397. Gaudichaud).

Adn. Cl. Spring. sub Sel. cupressina duas species conjunxit. Planta in Java, Japonia insulisque Philippinis proveniens est Selaginella biformis A. Br. msc.

### Selaginella deliquescens Spring.

Spring. bot. z. 1838. I. 204. Monogr. II. 178. — Lycopodium canaliculatum Sieb. fil. exs.

Ins. Mauritii (Commerson, Thouars, Sieber syn. f. 14).

### Selaginella denticulata Lk.

Lk. sp. fil. 159. Spring. Monogr. II. 83. Webb. et Berth. phyt. can. III. 433. Munby Cat. Alg. 35. Al. Br. Ind. sem. h. Berol. 1857. 13. Tchihatscheff fl. As. min. II. 652. Bolle ztsch. f. erdk. n. f. I. 281. Wawra Brasil. 186. — Lycopodium L. sp. 1569. Sw. Schrad. j. 1800. II. 119. syn. 183. W. V. 34. Desf. fl. Atl. II. 411. Brot. fl. Lusit. II. 420. DC. fl. franc. II. 575. Klf. en. 17. Bory Ess. Fort. 310. Spr. syst. IV. 19. Dsv. Ann. Linn. VI. 189. — Diplostachyum radicans Pal. Beauv. prod. 107.

Algeria (Bové, Steinheil); prope Oran (Reuter). — Ins. Madeira. — Ins. Canarienses, ins. Teneriffa (Chamisso, Schottmüller). — E. As.

### Selaginella depressa Al. Br.

Al. Br. Ind. sem. h. Berol. 1859. 21. — Lycopodium Sw. Schrad. j. 1800. II. 119. syn. 185. 412. W. V. 36. Schldl. ad. I. 8. Spr. syst. IV. 17. Dsv. Ann. Linn. VI. 187. Kze. Linn. 10. 487. Pappe et Rawson syn. fil. 53.

Prom. bon. spei.

Digitized by Google

Selaginella digitata Spring.

Spring. Monogr. II. 73.

**Madagascaria (Pervillé).**

Selaginella elegans Spring.

Spring. Monogr. II. 262. — Lycopodium elegans Dsv. Ann. Linn. VI. 188.

**Ins. Mascarenae. Species dubia.**

Selaginella falcata Spring.

Spring. Monogr. II. 181. — Lycopodium Dsv. enc. suppl. III. 540. Ann. Linn. VI. 188. — Stachygynandrum P. Beauv. prod. 113.

**Madagascaria (Bernier, Pervillé). — Ins. Borboniae (Commerson, Richard, Gaudichaud, Boivin 930. Ex herb. Mus. Paris). — Ins. Mauritii (Commerson, Carmichael).**

Selaginella fissidentoides Spring.

Spring. Monogr. II. 111. — Lycopodium Hook. Grev. enum. no. 151.

**Ins. Mahé (Pervillé). — Madagascaria (Lyall, Goudot). — Ins. Borboniae (Ex herb. Mus. Paris). — Ins. Sechellae (Kersten).**

Selaginella Goudotiana Spring.

Spring. Monogr. II. 91.

**Madagascaria, prope Tananarivo (Goudot).**

Selaginella imbricata Spring.

Spring. in Arch. d. Mus. II. 193. t. 7. Monogr. II. 70. Schweinf. beitr. 218. — Lycopodium Forsk. flor. Aeg. Arab. 187. Dsv. Ann. Linn. VI. 191. — Lycopodium circinale Dsv. enc. suppl. III. 541. Spring. bot. z. 1838. I. 221. — Lycopodium yemense Hk. Grev. enum fil. n. 100 pt.

**Abyssinia (Quartin-Dillon, Petit), in regione Sohohos prope Eilet (Ehrenberg), in planitie vallis Mensa (Kretschmer). — Mozambique (Peters). — As.**

Selaginella Kraussiana Al. Br.

Al. Br. Ind. sem. h. Berol. 1859. 22. Sitzber. Berl. Akad. 1865. 188. 195. M'Nab in Seemann j. bot. 1867. 148. Milde fil. eur. 272. — Selaginella hortensis Mett. fil. h. Lips. 125. Al. Br. Ind. sem. h. Berol. 1857. 21. 1858. 20. — Lycopodium denticulatum Lk. h. Berol. II. 163. Hartweg h. Carlsruh. 1825. Kze. ind. fil. 1850. — Lycopodium Kraussianum Kze. Linn. 18. 114. — Selaginella mnioides Spring. Monogr. II. 123 pt.

**Ins. Madeira prope St. Anna (Hochstetter); Ribeiro de Santa Luzia (Kny). — Africa occidentalis tropica (Mann 383). — Prom. bon. spei (Krauss 748, Breutel). — In monte Kilimandjaro (Kersten). — Natalia (Gueinzius). — E.**

Digitized by Google

Selaginella Lyallii Spring.

Spring. Monogr. II. 168. Al. Br. Ind. sem. h. Berol. 1859. 22. M'Nab in Seemann j. bot. 1867. 146. — Lycopodium Lyallii Hook. Grev. enum. fil. no. 120.

**Madagascaria (Lyall).**

Selaginella membranacea Spring.

Spring. Monogr. II. 178. — Lycopodium Dsv. enc. suppl. III. 551. Ann. Linn. VI. 191. — Selaginella fruticulosa Spring. bot. z. 1838. I. 202. (pt.) — Lycopodium canaliculatum Hk. Grev. en. fil. n. 116. (pt.)

**Madagascaria (Bernier). — Ins. Borboniae. — Ins. Mauritii (Bélanger, Bojer. Ex herb. Mus. Paris).**

Selaginella molliceps Spring.

Spring. Monogr. II. 257.

**Africa occidentalis tropica (Curror).**

Selaginella obtusa Spring.

Spring. Monogr. II. 201. — Lycopodium Dsv. enc. suppl. III. Ann. Linn. VI. 188. — Stachygynandrum Pal. Beauv. pr. 113. — Lycopodium viridulum Bory W. V. 37. Bél. voy. II. 11. Spr. syst. IV. 17. — Selaginella Spring. bot. z. 1838. I. 191. — Lycopodium pusillum Dsv. enc. suppl. III. 548. Ann. Linn. VI. 188. Hook. Grev. enum. fil. no. 175. Boj. h. Maurit. 425. — Selaginella Spring. enum. Lycop. 35. — Lycopodium umbrosum W. spec. V. 36. Spr. syst. IV. 17. — Lycopodium plumosum Bory msc.

**Madagascaria (Bernier). — Ins. Nossi-Cumba (Pervillé). — Ins. Borboniae (Bory in hb. W. 19380. 19381, Gaudichaud, Richard, Boivin 797). — Ins. Mauritii (Commerson, Bojer).**

Selaginella pectinata Spring.

Spring. Monogr. II. 167. — Lycopodium pectinatum W. V. 44. Spr. syst. IV. 20. — Lycopodium laevigatum Poir. suppl. III. 652. Spr. syst. IV. 19. Dsv. Ann. Linn. VI. 186. — Lycopodium bigeneum Noronha in hb. Deless. — Stachygynandrum laevigatum Pal. Beauv. prod. 113. Ad. Brongn. Vég. foss. II. t. 5. f. 1.

**Madagascaria (Commerson, Noronha hb. W. 19400, Thouars, Lyall, Goudot). — Ins. St. Mariae (Bernier). — As.**

Selaginella Pervillei Spring.

Spring. Monogr. II. 170. M'Nab in Seemann j. bot. 1867. 146. — Selaginella Africana hort. Al. Br. Ind. sem h. Berol. 1857. 19.

**Ins. Nossi-beh ad Madagascariam (Pervillé).**

Digitized by Google

Selaginella pumila Spring.

Spring. Monogr. II. 60. Al. Br. Ind. sem. h. Berol. 1857. 22. M'Nab in Seemann journ. bot. 1867. 143. — Lycopodium Schldl. ad. 6. t. 3. Lk. sp. f. 157. — Lycopodium pygmaeum Klf. en. 9. Spr. syst. IV. 14. Hk. Grev. bot. misc. II. 369. Kze. Linn. 10. 6. Kze. fil. I. 245. t. 100. f. 1. Pappe et Raws. syn. 49. — Lycopodium bryoides Klf. en. 10. Spr. syst. IV. 14. Klf. Linn. VI. 181.

Prom. bon. spei (Bergius, Mundt et Maire, Ecklon 494, Ecklon et Zeyher, Drège, Pappe, Burchell 6702, Harvey). — Natalia (Drège).

Selaginella rubricaulis A. Br.

M'Nab in Seemann journ. bot. 1867. 143.

Africa.? (In hortis frequenter culta.)

Selaginella rupestris Spring.

Spring. in Endl. et Mart. fl. bras. I. 118. Kl. Linn. 18. 520. J. Sm. bot. Herald. 343. Spring. Monogr. II. 55. Moore in Hk. j. bot. V. 227. Al. Br. Ind. sem. h. Berol. 1857. 12. Pappe et Raws. syn. 50. Schweinf. beitr. 217. Milde fil. eur. 262. — Lycopodium L. sp. 1564. amoen. acad. II. 337. Pallas. it. III. 178. Sw. Schrad. j. 1800. II. 116. Syn. 181. W. V. 30. Pursh. fl. Amer. sept. II. 654. Nutt. fl. Amer. II. 247. H. B. Kth. nov. gen. I. 40. syn. I. 97. Schk. t. 165. Klf. enum. 14. Raddi fil. brasil. 80. t. 4. bis. f. 2. Spr. syst. IV. 16. Dsv. Ann. Linn. VI. 191. Hook. fl. bor. Amer. II. 269. Thoms. in Speke journ. 654. — Stachygynandrum Pal. Beauv. prodr. 113. — Lycopodium Drègei Pr. bot. Bem. in d. Abhandl. böhm. Gesellsch. III. 583. — Reliqua synonyma ad alias terras referenda sunt.

Angola (Welwitsch, iter angolense 48. 49). — Prom. bon. spei (Chamisso, Drège, Ecklon et Zeyher, Burke). — Natalia (Plant 329 d.). — Prope Tette ad flumen Zambeze (Peters). — Regio Madi ad Nilum album (Grant et Speke). — Abyssinia, montes Kollo prope Djimba (Steudner), in regione Schohos (Quartin Dillon). — As. Am. s. c. a.

Selaginella scandens Spring.

Spring. Monogr. II. 192. — Lycopodium Sw. syn. 185. W. V. 46. Spr. syst. IV. 20. Dsv. Ann. Linn. VI. 190. Hk. Grev. enum. fil. in Hk. bot. misc. II. 392. Kze. fil. I. 18. t. 10. — Stachygynandrum Pal. Beauv. fl. d'Oware I. 10. t. 7. — Lycopodium plumosum Dsv. enc. bot. suppl. III. 540. — Lycopodium apiculatum Hornem. msc. — Lycopodium laevigatum Spring. Monogr. II. 137 pt.

Senegambia, in regione Karkandy (Heudelot). — Liberia (W. Arnott). — Sierra Leone (Vogel, Afzelius). — Ad promontorium Palmas (Schoenlein). — Guinea (Mortensen). — Regnum Owariense, ad flumen Formose (Pal. Beauvois in hb. W. 19406). — Ins. Fernando Po. — Ad flumen Gaboon (Ed. Jolis). — Angola (Welwitsch, iter angolense 2. 27). — Regio extratropica Africae occidentalis (Curror).

Digitized by Google

## Selaginella serrulata Spring.

Spring. Monogr. II. 202. — Lycopodium Dsv. enc. bot. suppl. III. 550. prodr. 190. Spr. syst. IV. 16. — Stachygynandrum obliquum Pal. Beauv. Mag. enc. n. 20.

**Ins. Borboniae (Pal. Beauvois). — Ins. Mauritii (Commerson). — NH.?**

## Selaginella subcordata A. Br. msc.

Surculi erecti, humiles, 3—5 centim. alti, laxe pinnatim vel subpyramidatim ramosi. Caulis tenuis, subflexuosus, pleurotropus, dorso aetate convexus. Radices tenerrimae. Folia inde a basi dimorpha, remota, rigidiuscula: lateralia postica, erecto-vel horizontaliter patentia, late ovata, oblique subcordata, breviter cuspidata, evidenter marginata et remote denticulata, margine anteriore versus basin breviter ciliata; axillaria lateralibus similia, sed paulo majora et aequaliter cordata; intermedia triplo vel quadruplo minora, ovata, basi subattenuata et suboblique inserta, in aristam aequilongam patulam excurrentia, parce et breviter ciliato-denticulata. Fructificatio ignota, verisimiliter platystachya. (A. Br. msc.)

**Sierra Leone, ad rupes umbrosas in montibus supra Freetown (Welwitsch 3.)**

## Selaginella surculosa Spring.

Spring. enum. Lycop. no. 67. Monogr. II. 147.

**Ins. Borboniae (Richard, Gaudichaud, Boivin 929).**

## Selaginella tenerrima A. Br. msc.

Surculi erecti, humiles (4—6 centim. alti), gradatim decrescendo laxe ramosi, ramis patulis. Caulis tenerrimus, flexuosus, pleurotrope rotundato-tetragonus, pallide flavescens. Folia undique dimorpha et remota, flaccida, pallide viridia, diaphana: lateralia postica, subhorizontaliter patula, late lanceolata et leniter extrorsum falcata, subinaequilatera, antice paullulum latiora, acuminata, basi paullulum attenuata, tenuissime marginata, denticulis in margine anteriore 12—15, infimis paullulum elongatis, in margine posteriore minoribus et versus basin evanescentibus instructa. Folia intermedia triplo minora, lateraliter inserta, ovato-oblonga, basi obliqua in aristam aequilongam, lateraliter arcuato-patulam excurrentia, carinata, utrinque denticulis paucis instructa. Spicae ramulos terminantes eosque latitudine aequantes, superficie planae, pectinatae. Bracteae heteromorphae: superficiales una cum carina late alata e basi oblique ovata lanceolatae, acutae, denticulatae, versus basin pauci-ciliatae; dorsales duplo breviores, hyalinae, ovatae, sensim acuminatae, parce ciliolatae. Microsporae puniceae granulis acutis, remotis adspersae. Macrosporae luteo-albae, 0,24—0,25 mm. crassae, minute et leviter ruguloso-tuberculatae. (A. Br. msc.)



Digitized by Google

Angola, distr. Golungo Alto, ad rivulos in silvis primitivis editioribus de Serra de Alta Queta (Welwitsch 45).

Similis Selaginellae chrysorrhizae Spring, sed humilior et foliis intermediis longe aristatis et apice arcuato-patulis facile distinguenda. (A. Br. msc.)

Selaginella tereticaulis Spring.

Spring. bot. z. 1838. I. 210. Monogr. II. 180. — Lycopodium Dsv. enc. suppl. III. 551. Spr. syst. IV. 18. Dsv. Ann. Linn. VI. 188.

Ins. Borboniae (Hb. Willd. 19403. Goudot). — Ins. Mauritii (Commerson, Thouars).

Selaginella unilateralis Spring.

Spring. Monogr. II. 254.

Madagascaria (Bernier).

Selaginella versicolor Spring.

Spring. enum. Lycop. n. 57. Monogr. II. 123. — ?Lycopodium Myosurus Afzel. msc. Sw. in Schrad. j. 1800. II. 118. syn. 181. W. V. 40. Spr. syst. IV. 18. Dsv. Ann. Linn. VI. 188. — Forsan cum Selag. abyssinica conjungenda.

Senegambia (Heudelot). — Angola; distr. Golungo alto; ad cataractas inferiores rivuli de Capopa prope Sanga (Welwitsch n. 42). — ?Sierra Leone (Afzelius).

Selaginella Vogelii Spring.

Spring. Monogr. II. 170. Hk. f. j. Linn. soc. VII. 5. Hk. ic. fil. cent. 2. t. 86. (an partim.?)

Ins. Fernando Po (Vogel, Barter 1044. 1398, Mann 149). — Montes Cameroon (Mann). — Old Calabar (t. M'Nab in Seemann journ. bot. 1867. 147).

Selaginella Yemensis Spring.

Spring. in Arch. d. Mus. II. 191. Monogr. II. 193. Schweinf. beitr. 217. — Lycopodium Sw. syn. 182. 407. t. IV. 4. Spr. syst. IV. 16. Dsv. Ann. Linn. VI. 186. (hyemense.) — Lycopodium sanguinolentum Forsk. fl. Aeg. Arab. 125.

Abyssinia, prope Mallosa (Schimper); inter Tschelga et Woechni (Steudner). — As.

## 55. Isoëtes L.

### Auctore Alexandro Braun.

Isoëtes adspersa Al. Br.

Al. Br. Expl. scient. d'Alger. t. 37. f. 3. Gren. Godr. fl. franc. III. 651. Bertol. fl. ital. crypt. 116. Munby Cat. 35. Milde bot. z. 1857. 474. Fournier Bull. Soc. France. 1862.

Digitized by Google

430. Milde fil. eur. 286. — Isoëtes setacea Munby fl. Alg. 112. non Bosc.

Algeria, prope Oran (Durieu); inter Oran et Senia (Balansa); prope La Calle (Lefranc t. Fournier). — E.?

Isoëtes aequinoctialis Welw. in lit.

Vegetatio terrestris. Rhizoma ad magnitudinem nucis Juglandis increscens, trisulcatum, foliorum fasciculum basi bulbi instar consertum gerens. Folia numerosa, rigida, dura, 30—40 centim. longa, supra vaginam 1 mm. lata, acute marginata, antice planiuscula, dorso convexa, fasciculis fibrosis periphericis primariis validis 4, accessoriis tenuioribus 18—24 percursa, stomatibus crebris instructa. Cellulae vitreae nonnullae coloratae. Vagina folii pallida. Sporangium velo ad $^1/_2$—$^3/_4$ tectum, cellulis sclerenchymaticis contiguis, vix coloratis instructum. Labium paulo productum. Lingula elongato-triangularis sporangio brevior. Macrosporae in eodem sporangio dimorphae, majores 0,55—0,62 mm., minores 0,38—0,48 crassae, cinerascentes, angulis et verrucis albis ornatae. Anguli crassi, obtusi, verticis in macrosporis minoribus flexuosi. Verrucae magnae, hemisphaericae, distantes, nonnunquam geminatim confluentes, in faciebus verticis 5—6, in macrosporis minoribus solitariae vel paucae confluentes. Microsporae 0,03—0,04 mm. longae, 0,025—0,035 crassae, valde obtusae, dense muriculatae. (A. Br. msc.)

Welw. msc. Al. Br. in Sitzb. Naturf. Fr. Berl. 1867. pag. 7.

Angola. In pascuis arenosis humidiusculis silvaticis inter Pungo Andongo et Sansamanda non procul a ripa fluminis Cuanza 1857 (Welw. n. 50).

Ab I. velata A. Br. differt vegetatione omnino terrestri, foliis durioribus, fasciculis fibrosis numerosioribus et validioribus, macrosporis dimorphis, microsporis brevioribus et crassioribus. (A. Br. msc.)

Isoëtes Duriaei Bory.

Bory Compt. rend. XVIII. séance du 24. juin. 1844. Flora. 1844. 716. Al. Br. Explor. scient. d'Alg. t. 36. fig. 2. Cosson. Not. 1849. 70. Gren. Godr. fl. franc. III. 652. Munby Cat. 35. Milde bot. z. 1857. 151. Bertol. fl. it. crypt. 116. Al. Br. Sitzber. Berl. Akad. 1864. 612. Ann. sc. nat. sér. V. t. II. 365. Milde fil. eur. 288. — Isoëtella Duriaei Gennari in Comment. III. 115. — Isoëtes tridentata Dur. msc. — Isoëtes Ligustica de Notar.

Algeria, prope Algeriam (Durieu, Durando). — E. As.

Isoëtes Hystrix Dur. msc.

Bory Compt. rend. 18. 1844. Flora 1844. 716. A. Braun in Expl. scient. d'Algér. t. 36. f. 1. Coss. Not. 70. Gren. Godr. fl. d. France III. 652. Milde bot. z. 1857. 475. Willk. et



Digitized by Google

Lange. Prodr. fl. Hisp. I. 14. Wolsey in Phytol. new. ser. V. 45. Munby Cat. 35. Babingt. journ. of bot. 1863. I. 2. Tchihatscheff fl. As. min. II. 657. Al. Br. Sitzb. Berl. Akad. 1864. 613. Ann. sc. nat. sér. V. t. II. 366. Milde fil. europ. 288. — Cephaloceraton Hystrix et gymnocarpum Genn. Coment. III. 111. — Isoëtes Duriaei Hook. brit. f. t. 56. — Isoëtes setacea Moris et de Not. flor. Caprariae 161. Etc.

Algeria (Durieu). — A. forma loricata Al. Br. l. c. — a. grandis Al. Br. prope Mascaram et Bonam. — b. nana Al. Br. prope Oran. — B. forma desquamata Al. Br. l. c. — b. caespitosa Al. Br. — α. longispina. Prope la Calle. — E. As.

Isoëtes nigritiana Al. Br. msc.

Differt ab I. aequinoctiali vegetatione aquatica (amphibia?), foliis tenuioribus, fasciculis fibrosis accessoriis paucis vel nullis, sporangii velo angustissimo, macrosporis (dimorphis) fuscis, in sicco fusco-cinereis, verrucis in faciebus verticis macrosporarum majorum et minorum solitariis vel paucis. (A. Br. msc.)

Ad flumen Niger in stagnis (Barter 1020).

Isoëtes Perralderiana Dur. et Letourn.

Durieu et Letourneux. Bull. soc. Franc. VIII. 1861. 591. Kralik. pl. Alg. select. 157. Milde fil. eur. 282.

Algeria, prope Akfada haud procul a Bugie Cabyliae orientalis (Cosson et Letourneux).

Isoëtes velata Al. Br.

Al. Br. Expl. sc. d'Alger. t. 37. f. 1. Munby cat. 35. Gennari Comment. n. 2. 1861. 103. Al. Br. Monatsber. Berl. Akad. 1863. 602. Ann. sc. nat. sér. V. t. II. 355. Milde fil. eur. 281. — Isoëtes decipiens Durieu msc. — Isoëtes setacea Bertol. fl. ital. critt. 115. Willk. et Lange prod. I. 14. Etc.

Algeria, prope La Calle (Durieu), prope Bona et Philippeville (Letourneux et de la Perraudière n. 155. 155 a). — E. As.

var. longissima Al. Br.

Al. Br. Expl. sc. d'Alger. t. 37. f. 2. Monatsb. Berl. Akad. 1863. 582. 621. J. longissima Bory Compt. rend. t. XVIII (1844).

Algeria, in lacu Houbera prope La Calle (Durieu). — E.

Isoëtes Welwitschii Al. Br.

Vegetatio terrestris. Rhizoma magnitudine nucis Avellanae, trisulcum, folia minus numerosa basi in bulbum imbricatum conserta et phylladibus nonnullis fuscis circumdata gerens. Folia rigida, stricta vel paullulum torta, dura, angustissima, ½ mm. lata, marginata, antice planiuscula, dorso convexa,

Digitized by Google

fasciculis fibrosis, periphericis compressis, primariis 4, accessoriis in pagine anteriore nullis, in posteriore utrinque 4 percursa, stomatibus crebris instructa. Cuticula nodulis seriatis ornata. Cellulae vitreae nonnullae coloratae. Vagina folii pallida (non fusco-variegata vel striolata). Velum angustissimum (subnullum), sporangium non tegens. Cellulae sclerenchymaticae sporangii striatim conjunctae, dilute fuscescentes. Labium truncatum. Lingula elongata, sporangio paulo brevior. Macrosporae ejusdem sporangii dimorphae, majores 0,48—0,54 mm., minores 0,30—0,36 mm. crassae, fuscae, siccae, cinerascentes, angulis verrucisque albis. Verrucae in facie basali numerosae, majores vel minores mixtae, in faciebus verticis omnes perminutae, numerosissimae. Microsporae 0,03 mm. longae, 0,02 crassae, acutiusculae, tuberculis minutis inconspicuis adspersae. (A. Br. msc.)
Al. Br. Sitzber. Gesellsch. Nat. Freund. z. Berl. 1867. 7.

In Angolae districto Huilla, in pascuis breve herbidis editissimis arenoso-humosis de Empalanca in Morro de Lopollo in 5500 ped. circ. 1860. (Welw. n. 166. sub nom. I. Huillensis.) — Affinis I. adspersae A. Br.

---

# Fam. V. **Rhizocarpeae Batsch.**

## I. Marsiliaceae Ad. Brongn.

### 56. Pilularia Vaill.

Pilularia minuta Dur.

Dur. msc. Al. Br. Explor. sc. d'Alger. t. 30. f. 1—20. ined. Munby Cat. 35. Kze. Linn. 23. 315. Moore ind. syn. CXXX. Al. Br. Monatsber. Berl. Akad. 1863. 435. Mett. f. h. Lips. 125. Milde fil. eur. 292. — Pilularia pygmaea Bory msc. in hb. Kze.

Algeria, prope Oran (Durieu). — E. As.

### 57. Marsilia L.

#### Auctore Alexandro Braun.

Marsilia aegyptiaca W.

W. V. 540. Spr. syst. IV. 9. Dsv. Ann. Linn. VI. 179. Delile Aeg. illustr. 972. et flor. 283. t. 50. f. 4. et 4[1].

Digitized by Google

Ledeb. flor. ross. IV. 494. Cosson et Kralik Sertulum Tunetanum 61. Al. Br. Monatsber. Berl. Akad. 1863. 430. Schweinf. beitr. 218.

Regnum Tunetanum, prope Gabes (Kralik 396). — Aegyptus (hb. W. 20256), prope Mansura, Damiette, Essaui (Ehrenberg), prope Abu-Zabel (Schimper et Wiest n. 33. Kotschy n. 408), ad pyramides Gyzenses (Delile, Kralik), prope Gezaieh (Husson), prope Cairo (Bilharz, Schweinfurth. n. 904. 907), ad lacum Menzaleh prope Tanis (Schweinfurth. 906). — E.

forma aquatica.

Aegyptus (Lefèvre), prope Damiette (Sieber, Bromfield), prope Cairo (Steudner), prope Gezaieh (Schweinfurth. 905), prope Sué d'Edkou (Husson).

## Marsilia biloba W.

W. V. 540. Spr. syst. IV. 9. Dsv. Ann. Linn. VI. 179. Al. Br. Monatsber. Berl. Akad. 1863. 429. — Marsilia quadrifolia h. Drège. — M. glomerata Presl. in Abh. d. Boehm. Gesellsch. d. Wissensch. III. 580.

Prom. bon spei, prope Musselbay (Meuron in herb. W. 20257). (Drège, Burchell cat. pl. Afr. austr. extratrop. n. 4444).

## Marsilia Burchellii Al. Br.

Al. Br. Monatsber. Berl. Ak. 1863. 429. — Marsilia quadrifolia γ. Burchellii Kze. Linn. 10. 556. — Marsilia minuta Burchell. cat. 1625. — Marsilia pusilla Al. Br. olim. — Marsilia quadrifolia g. Drège pl. exs.

Prom. bon. spei (Drège. Burchell cat. 1625. 2123). Orange River (Backhouse).

## Marsilia capensis Al. Br.

Al. Br. Monatsber. Berl. Akad. 1863. 428. — Marsilia quadrifolia β. Kze. Linn. 10. 555. — Marsilia quadrifolia d. e. f. i. Drège pl. exs.

Prom. bon. spei, prope Uitenhaag (Ecklon et Zeyher, Alexander 50), ad Oliphantrivier (Mundt et Maire), Kurrée (Mundt et Maire, Drège, Zeyher. Hb. 4644). — Natalia (Robertson 472).

## Marsilia crenulata Dsv.

Dsv. Ann. Linn. VI. 179. — Marsilia crenata Pr. rel. Haenk. 84. t. 12. f. 3. Al. Br. Monatsber. Berl. Ak. 1863. 420. — Marsilia microcarpa Al. Br. Flora 1839. 300. — Marsilia minuta Blanco Flor. Filipin. — Marsilia quadrifolia Bory it. I. 200. — Marsilia vulgaris Bory Bél. crypt. 3 pt. Boj. h. Maur. 426 pt.

Ins. Mauritii (Bory in hb. W. 20252. Ayres). — Ins. Borboniae (herb. Paris). — As. P.

var. incurva Al. Br. l. c.

Marsilia senegalensis Al. Br. flor. 1839. 300. — Mars. diffusa v. incurva A. Br. Monatsb. Berl. Akad. 419.

Senegambia (Perrottet).

Digitized by Google

## Marsilia diffusa Lepr.

Lepr. ined. Al. Br. flora. 1839. 300. Monatsber. Berl. Akad. 1863. 419. Bolle ztsch. f. erdk. n. f. I. 280. Milde fil. europ. 294. — Marsilia sarmentosa Bory msc. — Marsilia superterranea Kth. herb. — Marsilia erosa Kze. hb. pt. — Marsilia vulgaris Boj. h. Maurit. 427 pt. — Mars. quadrifolia Thoms. in Speke journ. 654. Schweinf. Beitr. 218.

Ins. Canarienses; ins. Gran Canaria (Despréaux, Bourgeau 1168). — Senegambia (Le Prieur, Perrottet, Heudelot, Lelièvre). — Ins. Nossi-beh (Boivin). — Madagascaria (Pervillé 358). — Ins. Mauritii (Perrottet). — In regione Noër ad ripas Nili albi (Grant et Speke).

Formae steriles dubie huc pertinentes:

Littora occidentalia lacus Nyassa, Elephant Marsh ad flumen Shire et in lacu retro Shanio ad flumen Shire (Kirk).

var. cornuta A. Br. msc.

Pedunculi breviores, sporocarpii longitudinem vix superantes, sursum arcuati. Sporocarpia paulo longiora (latitudinem dimidio fere superantia), dente superiore inferiorem longitudine duplo superante, erecto, sursum directo. Foliola subintegerrima vel leviter eroso-crenata.

Angola, juxta ripas fluminis Bero in agro Mossamedes (Welwitsch 173). Forma propter sterilitatem dubia foliis majoribus, foliolis profundius eroso-dentatis, ut in formis quibusdam Marsiliae erosae W., in agri Mossamedensis lacubus ad ostia fluminis Giraul (Welwitsch 174).

## Marsilia distorta Al. Br.

Al. Br. Monatsber. Berl Akad. 1863. 433.

Senegambia, prope Richard-Tol (Lelièvre, Perrottet).

## Marsilia gymnocarpa Lepr.

Leprieur in hb. Perrottet. Al. Br. Flora 1839. 300. Monatsber. Berl. Akad. 432. — Marsilia leiocarpa Bory hb. — Marsilia pygmaea Leprieur sec. Ad. Brongn. Dict. class. d'hist. nat. Ann. sc. nat. XII. 1839. 256. (an pt.?)

Senegambia (Leprieur, Perrottet).

## Marsilia fimbriata Schum.

Schum. Beskr. Guin. plant. 461. s. K. Dansk. Vid. Afh. IV. 235. Al. Br. Monatsber. Berl. Akad. 1863. 432.

Guinea (Thonning. Deest in herb. Havniens. et ob diagnosin plane incompletam melius delenda).

## Marsilia macrocarpa Presl.

Presl. in Abh. d. Boehm. Ges. d. Wissensch. III. (1843—44.) 580. — Marsilia Dregeana Al. Br. Monatsber. Berl. Akad. 1863. 428. — Marsilia quadrifolia a. c. (b.?) hb. Drège.

Prom. bon. spei (Drège. Ecklon et Zeyher. Burchell cat. 3896. ?Burke).

Digitized by Google

Marsilia muscoides Lepr.

Leprieur in herb. Perrottet. Al. Br. flora 1839. 300. Monatsber. Berl. Akad. 1863. 422. — Marsilia pygmaea Leprieur in hb. Kze.

Senegambia (Leprieur, Perrottet). — Angola, district. Benguella (Welwitsch n. 175), in agro Loanda circa Bemposta (Welwitsch n. 109).

Marsilia nubica Al. Br.

Al. Br. in Kotschy flor. Nub. exs. 1839. Monatsber. Berl. Akad. 1863. 432. Schweinf. beitr. 218.

Kordofan, in monte Arrasch-Kol (Kotschy 126).

Marsilia pubescens Tenore.

Tenore fl. Neap. prod. suppl. I. 70. Append. I. ad. cat. hort. Neap. ed. II. 67. flor. Neap. vol. IV. 140; V. 309. t. 250. Munby Cat. Alg. 35. Al. Br. Monatsber. Berl. Akad. 1863. 431. Mett. fil. h. Lips. 125. Gren. Godr. fl. Franc. III. 647. Al. Br. Expl. sc. d'Alg. t. 38. f. 31. 32. — Marsilia Fabri Dunal Ann. sc. nat. VI. 375; VII. 221. t. 12. 13; IX. 115. t. 13; X. 378. — Marsilia quadrifolia Desf. fl. atlant. II. 410. Mars. strigosa W. Milde fil. eur. 295 pt.

Algeria, prope La Calle (Desfont), prope Oran (Durieu, Munby), in Djebel Santo prope Oran (Cosson, Balansa 211). — E.

Marsilia rotundata Al. Br. msc.

Pedunculi solitarii, basilares, erecti, sporocarpio duplo-triplo longiores. Sporocarpia rotundato-quadrata, suborbicularia, vix longiora quam lata, modice compressa, ecostata, juventute pilis arcte adpressis vestita, mox calva, rhaphe elongata, dentibus binis obtusissimis fere obsoletis. Sori utrinque 7—8. Folia nuda, foliolis cuneato-obovatis subintegerrimis vel antice 4—8 crenatis.

Angola, districtus Huilla, in stagnis juxta rivum de Mumpulla (Welwitsch 171). Forma aquatica, major, foliolis latissimis integerrimis, dubie huc relata, in Angolae districtu Zenza de Golungo, in rivulo dicto Ribeira de Muchao (Welwitsch 40).

Affinis Mars. macrocarpae Presl, sed sporocarpia breviora et paulo minora.

Marsilia subterranea Lepr.

Leprieur in hb. Perrottet no. 996. Al. Br. flora 1839. 301. Monatsber. Berl. Akad. 1863. 433.

Senegambia (Despréaux, Leprieur, Perrottet).

Marsilia trichopoda Lepr.

Leprieur msc. Al. Br. flora 1839. 300. Monatsber. Berl. Akad. 1863. 422.

Senegambia (Leprieur, Perrottet 548).

Digitized by Google

Marsilia sp. (statu sterili).

Ztsch. f. erdk. n. f. XII. 329. Schweinf. beitr. 218.

Abyssinia, inter Adde Namen et Ad Johannis (Steudner).

## 2. Salviniaceae Bartl.

### 58. Salvinia Micheli.

Salvinia adnata Dsv.

Dsv. Ann. Linn. VI. 177.

Ins. Africanae orientales.

Salvinia hastata Dsv.

Dsv. Ann. Linn. VI. 177.

Ins. Borboniae.

Salvinia mollis Mett. msc.

Folia petiolata 8—9''' longa, 5—6''' lata, explanata e basi truncata late oblonga, apice obtusissima, subbiloba, supra pilis abbreviatis numerosissimis dense, infra pilis paucis elongatis sparse obsita, nervi translucentes densi et numerosi, more Doodyae in maculas pluriseriatas abeuntes, maculae internae costae approximatae, sequentes oblique elongatae, exteriores sensim angustiores; receptacula desunt. (Mett. msc.)

Madagascaria (Thouars in hb. Paris. et herb. Willd. 20249. f. 2).
Canales aërei numerosissimi sub lente vix distinguendi.

Salvinia natans Hoffm.

Hoffm. Deutschl. flor. W. V. 536. Lam. enc. VI. 481. Milde nov. act. 26. II. 389 etc. — Salvinia europaea Dsv. Ann. Linn. VI. 177 etc.

Algeria. — E. As.

Salvinia nigropunctata A. Br. msc.

Folia elliptica, oblonga, supra viridia, papillis seriatis, brevissimis, truncatis, nigris notata, infra dense pilosa fuliginosa. (A. Br. msc.)

Ad flumen Niger (Barter 1433. 303). — ?Calabar (Mann).

Salvinia nymphellula Dsv.

Dsv. Ann. soc. Linn. VI. 177.

Africa occidentalis.

Digitized by Google

## 59. Azolla Lam.

### Azolla nilotica Dcne.

Dcne. in hb. Mus. Paris. Mett. pl. Tinnean. 54. t. 25. Kotschy pl. Binderian. (Sitzber. Wien. Ak. t. 51.) — Azolla sp. Kotschy pl. Knoblecherian. (Sitzber. Wien. Akad. t. 50.)

**Ad Nilum album (hb. Mus. Paris.; ? Werne in herb. Berol.); ad ostia fluminis Sobat (Binder); ad Gonskoro (Knoblecher); Bahr-el-Abiad (Heuglin). — Ad flumen Luabo Africae orientalis (Kirk).**

### Azolla pinnata R. Br.

R. Br. Flind. voy. II. 611. prod. ed. Nees. 23. Spr. syst. IV. 9. Dsv. Ann. Linn. VI. 178. Wall. cat. 7092. Bory Bél. crypt. 5. Kze. Linn. 10. 556. Griff. Calc. journ. V. 257. t. 15—17. Harvey Gen. S. Afr. pl. 382. Mett. Linn. 20. 273. t. 3. f. 22—27. Hassk. pl. jav. rar. 3. cat. hort. Bogor. 293. Moore ind. 190. Mett. in pl. Tinnean. 53. — Salvinia imbricata Roxb. crypt. pl. 8. — Azolla africana W. hb. Dsv. Ann. Linn. VI. 178. Mett. Linn. 20. 274. Moore ind. 189. — Azolla Guineensis Schum. K. Danske Vid. Afh. IV. 236. — Azolla decomposita Zoll. Verz. 51. 52. — Azolla aethiopica Welw. msc.

**Guinea (Pal. Beauvois in hb. W. 20259. Thonning). — Ad flumen Niger (Vogel, Barter). — Angola, district. Pungo Andongo; in fluviis plurimis inter Pungo Andongo et Cassange (Welwitsch n. 38); distr. Libongo; in inundatis fluminis Lifuna (Welwitsch n. 37). — Prom. bon. spei (Drège). — Natalia (Gueinzius). — Madagascaria (Thouars, Chapelier). — As. NH. P.**

---

# Cormophyta e flora Africana excludenda.

### Acrostichum hirtum Sw.

Sw. syn. 19. 194. W. V. 104.

**In India occidentali provenit, non in insula Madeira.**

### Aspidium fuscatum W.

W. V. 256. Asp. mohrioides Bory voy. Coq. 267. t. 35. f. 1.

**Non in insulis Canariensibus invenitur, sed in Maclovianis, ut jam cl. Bory (Vog. Coq. 267) annotavit.**

### Asplenum Labillardieri Kze.

Kze. Hk. sp. III. 108.

**In insula Bourou Polynesiae, non in Borboniae insula provenit.**

Digitized by Google

Asplenum laserpitifolium Lam.

Lam enc. I. 310. Hk. sp. III. 172.

**Collegitur prope Port Praslin Novae Brittaniae, non in insula Praslin Sechellarum.**

Asplenum Odontites R. Br.

R. Br. prod. 151. Pappe et Raws. syn. 23.

**Provenit in Nova Hollandia, non in Promontorio bonae spei.**

Blechnum denticulatum Sw.

Sw. syn. 113. 311. W. V. 412. Hk. sp. III. 62. — Est Blechnum serrulatum Rich in Gujana gallica proveniens. Patria a cl. Swartzio commutata est.

Dufourea trifaria W.

W. sp. V. 55. (D. tristicha P. Thouars). — Tristicha trifaria Tulasne monogr. Podost. p. 180. — Podostemaceae.

Dufourea alternifolia W.

W. mag. d. gesellsch. d. Naturf. Freunde VI. 63. — Tristicha alternifol. Tul. l. c. — Podostemaceae.

Equisetum hiemale L.

L. Munby Cat. 35.

**Ex Algeria ignotum.**

Equisetum variegatum Schleich.

Schleich. Munby Cat. 35.

**Ex Algeria ignotum.**

Lomaria eriopus Kze.

Kze. Linn. 13. 152; 18. 116. Hk. sp. III. 41. est Stangeria paradoxa Moore in Hook. Kew. gard. Misc. V. 228. (Cycadaceae.) Pappe et Raws. syn. fil. Afr. austr. 54.

Lycopodium scorpioides Bory.

Bory W. V. 54. hb. 19432. Spr. syst. IV. 21. est Hepatica quaedam.

Lycopodium hypnoides Bory.

Bory W. V. 54. hb. 19431. Spr. syst. IV. 21. est Hepatica.

Notholaena setigera Dsv.

Dsv. journ. III. 93. Poir. enc. suppl. IV. 110. Spr. syst. IV. 42. Mett. Cheil. n. 20 d. — Cincinalis Dsv. Berl. Mag. V. 311.

**Ins. Borboniae. — Est Woodsia ilvensis, sed patria sine dubio erronea.**

Digitized by Google

Pteris andromedaefolia Klf.

Klf. en. 188. Kze. Linn. 10. 503. Pappe et Raws. syn. 31.

**In California atque Chili provenit, non in Prom. bon. spei. Patria a cl. Kunzeo commutata est.**

Pteris cordata Sieb.

Sieb. flor. mixt. 269.

**Nunquam in Prom. bon. spei collecta est, sed in Nova Hollandia.**

Pteris cuspidata Thbg.

Thbg. prod. 171. fl. cap. 732. W. V. 366. Spr. syst. IV. 71. Pappe et Raws. syn. 51.

**Est folium sterile Angiopteridis speciei.**

Schizaea bifida W.

W. Sieb. fl. cap. 227.

**Provenit in Nova Hollandia, non in Promontorio bonae spei.**

Digitized by Google

# Addenda et Corrigenda.

**Magnopere doleo, quod non prius quam hoc opus jam ad finem venisset, Hookeri synopsin filicum, post mortem auctoris a cl. Baker editam mihi parare possem, in qua nonnullae africanae filices aliis nominibus, quam nostris descriptae sunt. Septem hujus libri partes usque adhuc vidi. Omnia memorabilia hujus operis et nova in his additamentis addidi.**

P. 1. linea 21 lege dia — et linea 22 gnosibus.
p. 3. l. 15 pro Hoc autem lege Quod.
p. 11. l. 8 lege inveniantur.
p. 14. l. 3 infima lege acclimatation.
p. 16. l. 5 infima lege ignivomo.
p. 32. post Trichomanes angustatum inserendum est: Trichomanes Barklyanum Baker in Hook syn. fil. 74. Tamari Cascade in insula Mauritii (Barkly). Cl. Baker l. c. Trich. Barklianum et eodem loco p. 151. Pellaea Barklyae scripsit, sed rectius mihi videtur hoc loco quoque Trich. Barklyanum scribere, praesertim cum hoc Trichomanes in honorem praefecti insulae Mauritii Sir Henry Barkly et uxoris suae Lady Barkly nominatum est.
p. 33. post Trichomanes borbonicum Bosch adde: Trichomanes crispum L. Africa occidentalis tropica (ex Hooker syn. 82).
p. 33. l. 22 lege Desfontaines.
p. 33. l. 4 infima lege meifolium.
p. 34. post Trich. Guineense Afz. inserendum est: Trich. Kirkii Hk. msc. syn. fil. 78. Ins. Comorae, ins. Johannae (Kirk. Grey.).
p. 34. l. 30 lege Trich. Mannii Hk. msc. syn. fil. 75. pro Trich. Manniano Mett. msc., quod nomen ex lege prioritatis delendum est.
p. 35. l. 29 lege myriophyllum.
p. 35. l. 1 infima adde: Ins. Comorae; ins. Johannae.
p. 36. l. 31 adde Angola, Fernando Po. (Ex Hook. syn. 81).
p. 37. l. 7 Ex Hook. syn. fil. 86. haec species (Trich. rigidum Sw.) nuperrime etiam in Angola et insula Fernando Po collecta est.
p. 39. l. 5 adde: Ad flumen Zambeze. (Ex Hook. syn. 63.)
p. 40. l. 10 infima lege bivalves.

Digitized by Google

p. 40. Ex lege prioritatis nomen: Hymenophyllum Mannianum Mett. msc., in Hymenophyllum triangulare Baker in Hk. syn. fil. 69. mutandum est.
p. 47. l. 16 lege Lamarck.
p. 50. l. 9 infima lege superiora.
p. 57. l. 31 delendum est: Antrophyum Meniscium Mett. hb. Specimina a cl. Mann in insulae Fernando Po (n. 367) et in montibus Cameroon (n. 1310) collectis a cl. Hookero benevolentissime mihi communicata nullo modo ab Antroph. Manniano Hook differunt.
p. 61. l. 2 delendum: Asplenum Cav. Ann. Cienc. V. 13. t. 41. f. 3.
p. 61. l. 27 adde: Algeria (Lefèvre).
p. 62. l. 13 adde post litteram E. As.
p. 63. l. 5 delendum est: Adiantum marginatum Schrad.
p. 63. l. 16 adde: Regio nigritiana (ex Hooker syn. 63).
p. 63. l. 5 infima adde: Ad flumen Zambeze (Waller).
p. 65. l. 5 adde: Regiones ad flumen Zambeze et Niger. (Ex Hooker syn. fil. 126.)
p. 65. l. 23 adde: Angola et ad flumen Zambeze. (Ex Hook. syn. fil. 114.)
p. 66. l. 7 adde: Ins. Caboverdicae; ins. St. Antonii (C. Bolle).
p. 66. l. 7 infima Nomen Adiantum thalictroides W. ex lege prioritatis in Adiantum crenatum Poir. mutandum est.
p. 67. Lindsaya Boivini Mett. msc.

Rhizoma repens setis ferrugineis vestitum; folia disticha, subdensa, membranacea, glabra; petiolus stramineus, 4″ longus, subtetragonus; lamina 4—7″ longa, oblonga s. ovata, acuminata, pinnatisecta; segmenta trapezio-lanceolata, sursum truncata, deorsum late cuneata, leviter serrata s. basi laciniata, laciniae 1—2, obovatae, obtusae, rarius acutae; costa segmentorum prominula; nervi pluries furcati, rarius anastomosantes; sori plerique distincti, rarius confluentes; indusia pallida, margine paullulum superata, contigua. (Mett. msc.).

Ins. Comorae, ins. Mayotte (Boivin n. 2882).

Linds. Imrayanae proxima, forma segmentorum ac indusiis densis contiguis s. subcontiguis margini approximatis insignis, divisione laminae cum L. variabili comparanda, ceterum et nervis liberis et n. anastomosantibus ludens. (Mett. msc.)

p. 67. ante Lindsayam cuneatam W. inserendum est: Lindsaya cultrata Sw. Borbonia, Madagascaria (Meller). (Ex Hk. syn. fil. 105.)
p. 68. l. 13 adde: Davallia Melleri Hk. msc. Hk. syn. fil. p. 102.
p. 68. l. 30 adde: Ad flumen Kongone (Livingstone). (Ex Hk. syn. fil. 110.)

Digitized by Google

p. 68. l. 31 Lindsaya Kirkii Hk. msc. syn. fil. 108 ex lege prioritatis anteponenda est.
p. 69. l. 2 delendum est: Davallia Hk. I. 175.
p. 69. l. 29 adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 131.)
p. 70. l. 1 infima adde: Pellea deltoidea Baker in Hook. syn. fil. 147.
p. 71. l. 6 infima adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 142.)
p. 71. l. 3 infima. Cheilanthes fragrans Webb et Berth. ex lege prioritatis anteponendum est.
p. 72. l. 27 adde: Angola. (Ex Hook. syn. fil. 136.)
p. 73. l. 23 adde: Cheilanthes Welwitschii Hk. msc. in Hook. syn. fil. 142.
p. 75. l. 12 adde: Montes Cameroon. (Ex Hook. syn. fil. 150.)
p. 77. l. 11 infima adde: Angola (Welwitsch). (Ex Hook. syn. fil. 170.)
p. 77. l. 10 infima. Nomen: Pteris Barklyae Baker in Hook. syn. fil. 151 ex lege prioritatis pro Pteride Barkleyae Mett. anteponendum est.
p. 80. l. 29 adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 152.)
p. 81. l. 4 Nomen: Pteris occidentalis Baker in Hk. syn. fil. 128 ex lege prioritatis pro Pteride glaberrima anteponendum est.
p. 81. l. 2 infima adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 152.)
p. 84. Pteris Mannii Baker in Hook. syn. fil. 168 ex diagnosi brevi diversa mihi videtur a nostra Pteride Manniana, quamobrem nostram speciem »Pteris Camerooniana Kuhn« nominavi.
Pteris Mannii Baker in Hook. syn. fil. 168.
Ins. Fernando Po (G. Mann).
p. 85 post l. 17 inserendum est: Pteris Melleri Baker in Hook. syn. fil. 165.
Madagascaria, ad cataractas in valle Anevoca (Meller).
p. 87 l. 8 infima adde Pteris brevisora Baker in Hook. syn. fil. 162. (non brerisora, error typogr.)
p. 88. l. 24 adde: Angola (Welwitsch). (Ex Hook. syn. fil. 132.)
p. 90. l. 20 lege Plukenet. et lin. 14 adde: Angola et ins. Sechellae. (Ex Hook. syn. fil. 152.)
p. 91. l. 4 lege Plukenet.
p. 94. l. 22 adde: Angola. (Ex Hook. syn. fil. 180.)
p. 97. l. 4 adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 204.)
p. 99. l. 1 infima lege Zambeze.
p. 100. l. 4 lege Schweinf. beitr. zur flora Aeth.
p. 100. post lin. 14 inserendum est: Asplenum coriaceum Baker in Hook. syn. fil. 192. Montes Cameroon (Mann).
p. 100. l. 11 infima adde: Mozambique; ins. Johannae, Sechellae. (Ex Hook. syn. fil. 214.)

Digitized by Google

p. 101. post. lin. 16 inserendum est: Asplenum dimidiatum Sw. Hk. syn. fil. 209. Guinea.
p. 102. l. 27 adde: Ad flumen Zambeze. (Ex Hook. syn. fil. 208.)
p. 103. l. 11 adde: Angola (Welwitsch). (Ex Hook. syn. fil. 210.)
p. 103. l. 23 adde: Angola, ad flumen Zambeze, Madagascaria. (Ex Hook. syn. fil. 208.)
p. 104. post Asplenum humile adde: Baker in Hk. syn. fil. 230.
p. 105. l. 21 adde: Montes Cameroon (Mann). (Ex Hook. syn. fil. 200.)
p. 106. l. 25 signum? post Algeriam delendum est.
p. 106. l. 20 adde: Zambeze (Kirk). (Ex Hook. syn. fil. 221.)
p. 106. l. 5 infima adde: Asplenum vagans Baker in Hk. syn. fil. 195 ex parte.
p. 108 lin. 21. Asplenum Nigritianum Hook. nullo modo ab Aspleno pedicularifolio St. Hil. (voy. d. l. dist. d. Diam. I. 380) fide spec. orig. distingui potest, quod nomen ex prioritatis legibus anteponendum est. l. 24 adde: Brasilia.
p. 111. l. 5 delendum est signum? Algeria (Naudin ex Milde fil. europ. p. 310).
p. 111. l. 10 infima delendum est: Asplenum geminaria Bory, quod Gymnogramme leptophylla est.
p. 112. l. 20 adde: Angola. (Ex Hook. syn. fil. 204.)
p. 112. l. 21 Nomen: Asplenum irregulare Baker in Hook. syn. fil. 222 ex lege prioritatis anteponendum est.
p. 113. l. 20 adde: Fernando Po. (Ex Hooker syn. fil. 211.)
p. 113. l. 1 infima adde: Ad flumen Zambeze (Kirk). (Ex Hook. syn. fil. 212.)
p. 114. l. 1 adde: Asplenum vagans Baker in Hook. syn. fil. 195 ex parte.
p. 114. l. 30 adde: Asplenum concolor Hk. msc. in Hook. syn. fil. 191 ex parte.
p. 115. l. 19 delendum est: Adiantum furcatum L. suppl. 447.
p. 116. l. 5 adde: Ins. Johannae. (Ex Hook. syn. fil. 116.)
p. 116. l. 8 infima adde: Angola. (Ex Hook. syn. fil. 192.)
p. 117. l. 5 infima adde: Fernando Po. (Ex Hook. syn. fil. 201.) Locus mihi valde dubius, an nova species?
p. 118. l. 7 infima adde: Guinea. (Ex Hook. syn. fil. 229.)
p. 119. l. 15 lege: Asplenum Welwitschii Hook. msc. in Hook. syn. fil. 235.
p. 119. l. 14 infima lege: Ceterach aureum L. v. Buch. Allgem. uebers. d. Canar. Dsv. Ann. Linn. VI. 222 etc.
p. 124. Synonymis Aspidii albopunctati sine dubio addendum est: Aspidium punctulatum Baker in Hook. syn. fil. 261. Montes Cameroon (Mann).
p. 125. l. 12 adde: Angola ex Hook. syn. fil. 264.

Digitized by Google

p. 126. l. 28 lege: Aspidium Barteri Sm. Ferns. Brit. and For. 286. Nephrodium Baker in Hook. syn. fil. 299.

p. 127. Ex cl. Baker observationibus (in Hk. syn. fil. 280. 284) Nephrodium divisum Hook. differt ab Aspidio Boryano W., quamobrem hoc modo species distinguit:
Nephrodium (Lastrea) Bojeri Baker in Hook. syn. fil. 280. Nephrodium Boryanum Hk. spec. IV. 126. Borbonia. Mauritius.
Nephrodium (Lastrea) Boryanum Baker in Hook. syn. fil. 284. Nephrodium divisum Hk. spec. IV. 133. Borbonia. Java etc.
Aspidium divisum Wall. cat. 393 t. spec. orig. est Aspidium Boryanum. Haec res denuo observanda mihi videtur.

p. 128. l. 25 Aspidium Comorense est Nephrodium Spekei Baker in Hook. syn. fil. 263. Aspidium Spekei Nob. Addendum est: Angola (Welwitsch ex Hook. l. c.).

p. 128. l. 5 infima delendum est: Polypodium capense L.

p. 131. ante Aspidium elatum inserendum est: Aspidium distans Nob. Nephrodium Hk. spec. IV. 76. syn. fil. 288. Madagascaria (Boivin); ins. Johannae (Kirk).

p. 131. l. 5 infima lege Ed. Jardin.

p. 133. l. 25 Cl. Baker in Hook. syn. fil. 255 hanc speciem (A. frondosum) quoque in Natalia et ad flumen Zambeze inventam esse commemorat; sed ex schedulis in herbarii Mettenii haec plantae formae peculiares Aspidii aristati Sw. sunt.

p. 134. l. 15 delendum est: A. Grunow.

p. 134. l. 2 infima lege Zambeze.

p. 139. l. 16 Aspidium Welwitschii Nob. Nephrodium Baker in Hk. syn. fil. 174 ex lege prioritatis anteponendum est. Cur Cl. Baker hoc loco et nonnullis aliis Welwitzsch scripsit, nescio.

p. 143. l. 4 infima adde: Litora lacus Nyassa (Livingstone ex Hook. syn. fil. 290).

p. 144. l. 5 lege Ed. Jardin.

p. 144. l. 31 adde: Fernando Po. (Ex Hook. syn. fil. 103.)

p. 144. ante genus »Oleandra« inserendum est: Woodsia R. Br. Woodsia Burgessiana Gerr. msc. in Hook. syn. fil. 48. Natalia, ad flumen Tugela (Gerrard, M'. Ken.).

p. 145. l. 4 adde: Oleandra articulata *β*. Welwitschii (non Welwitzschii ut cl. Baker scripsit) Hook. syn. fil. 302. Angola (Welwitsch).

p. 146. l. 28 Addendum est: Polypodium Beaumontii Leperv. Rhizoma repens, paleis rufidulis, nitidis, minutis, lanceolatis, obtusis dense vestitum; folia subcoriacea pilis rufis, nitidis, patentibus dense obsita; petiolus $^3/_4$—1″ longus, dense setosus, mox denudatus; lamina 1—2″ longa,

2—4''' lata, spathulata vel lanceolata, basi cuneata, apice obtusa, irregulariter sinuata; nervi repetito-furcati, liberi s. anastomosantes, hinc inde catadromi; sori dorsales vel terminales, medii inter costam et marginem; sporae globosae, tripode notatae; paraphyses articulatae ramosae. Ins. Borboniae (Vieillard a. 1862 in monte, qui dicitur »Mont de Brulé«). — Loco accuratius non indicato. (Mezière in herb. Paris.). — Ins. Mauritii (Lepine).
Polypodio setigero Bl. proximum, sed satis diversum.

p. 151. l. 5 infima delendum est Polypodium pubescens Schum.
p. 154. l. 31 post Pr. t. 198 adde: Mett.
p. 156. l. 4 adde: Nephrolepis cordifolia Baker in Hook. syn. fil. 300.
p. 159. l. 10 adde: Dicksonia rubiginosa Klf. Hook. syn. fil. 53.
p. 160. l. 9 infima adde: Alsophila aethiopica Welwitsch msc. Hook. syn. fil. 44.
p. 161. l. 28 adde: Hook. syn. fil. 45.
p. 167. l. 6 infima adde: Madagascaria ex Hook. syn. fil. 14.
p. 167. l. 4 infima lege J. Sm.
p. 183. l. 14 infima delendum est: Angola (Welwitsch iter angolense 167. 168) et adde: In monte Hauteniqua, Montagu-Pass (Breutel).
p. 184. l. 6 pro Angola etc. lege: Angola, distr. Huilla, ad margines rivulorum de Morro de Lopollo in editioribus (Welwitsch 170).
p. 186. Inter Lycopodium proliferum Bl. et L. Saururus Lam inserendum est:

Lycopodium sarcocaulon A. Br. et Welw. msc.
Lycop. carolinianum β. grandifolium Spring. Monogr. II. 46.
Surculi repentes, rigidi, alternatim ramosi. Caulis crassissimus, carnosus, radicibus crebris, niveis humo arctissime affixus. Folia evidentissime dimorpha: lateralia horizontaliter expansa, humo adpressa, retrorsum curvata; falciformia, acuta, verticaliter inserta, longe decurrentia, specie binervia, carnosa (sicca membranacea, diaphana); intermedia triplo minora, pluriserialia, cauli arcte adpressa, elongato-triangularia, acuta. Spica in scapo elongato solitaria, bracteis circ. 9— seriatis. (A. Br. msc.) Angola, districtus Huilla, in declivibus spongiosis editioribus de Morro de Lopollo (Welwitsch 168). —Africa meridionalis (Natalia ad urbem Macalisberg?) (Burke.) Lycopodio caroliniano omni parte majus. Caulis 5—6 mm. crassus, folia lateralia 12—15 mm. longa. A Lycopodio paradoxo foliis lateralibus multo longioribus falciformibus et intermediis multiseriatis distinguitur. (A. Br. msc.)

Digitized by Google

p. 187. Inter Lycopodium trichiatum Bory et L. ulicifolium Vent. inserendum est:

Lycopodium tuberosum A. Br. et Welw. msc.
Surculi repentes, elongati, flexuosi, parce ramosi. Rami steriles saepe stolonum more attenuati et apice in tubera oblonga, dura, 10 mm. longa, 5 mm. crassa (amylo farcta) intumescentes. Caulis tenuis, dorso aphyllus, radicibus hinc inde humo affixus. Folia minus evidenter dimorpha: lateralia subexpansa, oblique lanceolata, antice latiora, oblique inserta et breviter decurrentia; intermedia patula, erecta, lateralibus vix breviora, sed duplo angustiora, omnia subulato-acuminata in aristam flexuosam apice hyalinam. Spica in scapo elongato solitaria, bracteis 9—11 seriatis.
Angola, districtus Huilla, in declivibus spongiosis editioribus (alt. s. m. 5000 ped.) de Morro de Lopollo (Welwitsch 167).
A. Lycop. caroliniano imprimis differt foliis in aristam elongatam excurrentibus et tuberculis iis Solani tuberosi omnino comparandis.

p. 189. l. 1 infima lege: Promont. bon. spei (Thunberg sec. Swartz). — Natalia (Gueinzius).

β. minor A. Br. msc.
Foliorum lateralium ciliis numerosioribus (A. Br. msc.).
Angola, prope Pungo Andongo, in cryptis et ad latera umbrosa rivulorum (Welwitsch n. 44; planta sterilis) et ad rupes gneisiacas apricas in summis montibus (Welwitsch 43, forma minima, sterilis).

p. 192. l. 11 addendum est:

Selaginella rubricaulis (Moore?) A. Br. msc.
M'Nab in Seemann journ. bot. 1867. 149 (non 143).
Surculi erectiusculi, inferne tantum radicantes, stolonibus carentes, palmares, pyramidato-vel subfastigiato-ramosi, ramis erecto-patentibus laxe pinnatis, ramulis parum divisis. Radices anticae, tenues, capillares. Caulis subflexuosus, aquose purpurascens vel carneo-flavescens, siccitate expallens, pleurotrope subtetragonus, dorso dilatatus nudus. Folia undique dimorpha, versus apices ramorum paulo decrescentia, deorsum longius remota, sursum paulo distantia vel subcontigua, mollia, subopaca, diaphana, subtus pallidiora: lateralia antica, oblique inserta, erecto-vel subhorizontaliter patentia, inferiora oblique ovato-oblonga, superiora oblique lanceolata, inaequilatera, antice latiora et versus basin dilatata, postice recta et basi subauriculata, acuta, utroque margine anguste marginata et minute denticulata, antice versus basin remote



Digitized by Google

ciliata, nervo subtus late prominulo versus apicem evanescente; folia axillaria subaequilatera, ceterum lateralibus similia; folia intermedia duplo-quadruplo minora suboblique ovata vel ovato-lanceolata, basi attenuata et oblique inserta, dorso carinata, apice in aristam curvato-patulam laminam subaequantem sensim acuminata, laxe ciliato-dentata. Spicae ramulos terminantes eosque latitudine subaequantes, superficie planae et pulchre pectinatae. Bracteae heteromorphae: superficiales carina latissima alatae, inclusa carina oblonga-lanceolatae, obtusae, denticulatae; dorsales duplo breviores, pallidae, ovatae, cuspidatae, ciliolatae. Microsporae puniceae, vix rugulosae; macrosporae luteo-albae, 0,23—0,25 mm. crassae, rugis tenuioribus angulatim conjunctis subreticulatae. (A. Br. msc.) Colitur in hortis, secundum M'Nab ex Africa introducta.

β. angolensis A. Br. msc.

Ramificatio minus evoluta, magis pinnata. Folia lateralia obtusiuscula, intermedia paullo brevius acuminata. (A. Br. msc.)

Angola, distr. Golungo alto, in muscosis maxime umbrosis rupestribus juxta rivulum de Capopa (Welwitsch 47); in insula Principis (Ilha de Principe), in sinu Biafra, in silvis primitivis editioribus maxime umbrosis montis Pico de Papagaio (Welwitsch 11).

Observ. Sel. molliceps Spring sec. descriptionem auctoris plurimis quidem notis cum Sel. rubricauli convenit, sed cum »folia lateralia postica« in nostram non quadrent, conjungere eas non audeo. (A. Br. msc.)

p. 192. Ad Selaginellam rupestrem cl. A. Braun benevolentissime has adnotationes mihi communicavit:

Formae africanae ab asiaticis et americanis recedunt et varietates vel si mavis subspecies proprias sequentes sistunt.

Sel. rup. α. Balansae A. Br. msc.

Glauco-cinerascens. Surculi adscendentes ramis erectis. Folia recta et erecta (neque curvata, neque heteromalla), dorso convexiuscula, ciliis utrinque 8—15, omnibus abbreviatis dentiformibus instructa, apice in aristam piliformem laminam dimidiam aequantem, albam, parce denticulatam attenuata. Spicae breves. Macrosporae 0,30—0,36 mm. crassae, reticulatim rugulosae.

Marocco, in rupestribus schistosis convallis Oued Ghaghaià ad meridiem urbis (Balansa).

Huic accedit forma Mozambicensis in statu depauperato et sterili a cl. Peters lecta, pusilla, ramis brevissimis

Digitized by Google

dense congestis, foliorum ciliis utrinque 4—8, arista terminali breviori, latiuscula, alba.

Sel. rup. β. incurva A. Br. msc.

Virescens. Surculi repentes, humo adpressi, ramis adscendentibus sursum incurvatis. Folia apice plus minus sursum incurva, dorso convexiuscula, utrinque inde ab ima basi ciliis 12—20, inferioribus elongatis, superioribus brevissimis dentiformibus instructa, apice attenuata in aristam piliformem lamina multo breviorem, superne teretem et ad apicem usque undique denticulatam. Spicae breves.

a. forma capensis et abyssinica

foliorum ciliis minus numerosis (12—15), arista longitudine $^1/_8$—$^1/_4$ laminae partem adaequante, omnino vel apice alba.

b. forma angolensis

ciliis numerosioribus (15—20), arista $^1/_4$—$^1/_8$ laminae partem aequante, lutescente.

Abyssinia, prope Choho (Quartier-Dillon); prope Djimba (Steudner).

Prom. bon. spei (Ecklon et Zeyher 7); in monte Katberg, in campis graminosis 4—5000 ped. alt. (Drège, Lycop. rupestre a.); Witbergen, locis petrosis 5—6000 ped. alt. (Drège, Lycop. rupestre aa.).

Angola, distr. Huilla, in rupestribus dumetosis ad 5000 ped. alt. montium de Lopollo (Welwitsch 169).

Observ. Presl specimina Dregeana hujus varietatis ad sequentem citat, duas ergo varietates sub Lycopodio Dregei confundisse videtur. Selag. rupestris var. Caffrorum Milde (Fil. europ. 262) e terra Caffrorum e descriptione auctoris huc pertinere videtur, nonnisi arista folii laevissima discrepans.

Sel. rup. γ. recurva A. Br. msc.

Glauco-cinerascens. Surculi prostrati, sed humo non adpressi, elongati, ramis adscendentibus sursum curvatis. Folia imbricata, heteromalla, apice deorsum curvata, falcata vel uncinata; lamina folii dorso plana (ut in omnibus Sel. rupestris formis medio longitudinaliter sulcata), supra basin ad aristam usque utrinque ciliis 10—15 elongatis patulis instructa, sensim in aristam albam inferne latam planam ciliatam vel denticulatam, apice valde attenuatam et laevem excurrens. Spicae breves. Macrosporae (in forma b. observatae) 0,40—0,42 mm. crassae, aurantiacae, densius reticulato-rugulosae.

Digitized by Google

Exstant formae 2:

a. Dregeana A. Br. msc.
foliis angustioribus leniter falcatis, arista inferne ciliata.
Selaginella rupestris var. Dregei Milde fil. europ. 262.—Lycopodium Dregei Presl Abhandl. d. Boehm. Gesell. d. Wissensch. III. 583 partim.

Natalia, inter flumina Omsamwubo et Omsamcaba, alt. 2000 ped. (Drège Lycop. rupestre b.)

b. Welwitschiana A. Br. msc.
foliis latioribus, uncinato-falcatis, arista inferne denticulata.

Angola, distr. Pungo Andongo, in rupestribus editissimis (3800 ped.) de Pedras de Guinza (Welwitsch 48) et in Pedra Cazella (Welw. 49).

p. 192. l. 2 infima lege: Angola, in silvis primitivis prope ripas fluminis Zaire (alias Congo) (Welwitsch 27). — Sierra Leone, in silvis umbrosis editioribus, in montibus supra Freetown (Welwitsch 2).

p. 192. l. 7 infima lege Selaginella laevigata Spring. Monogr. II. 137 pt.

Berolini. Mens. December 1867.

**M. Kuhn.**

Digitized by Google

# INDEX.



Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

TYPIS BREITKOPFII & HAERTELII LIPSIAE.

Digitized by Google

Digitized by Google

Bei **Wilhelm Engelmann** in Leipzig erschien ferner.

## Handbuch
# der physiologischen Botanik

in Verbindung mit
**A. de Bary, Th. Irmisch** und **J. Sachs**
herausgegeben von
**Wilh. Hofmeister.**

4 Bände. Mit zahlreichen Holzschn. gr. 8. 1865, 66, 67. br.

---

Erschienen sind:

1. Band. 1. Abtheil. **Die Lehre von der Pflanzenzelle** von Wilh. Hofmeister. Mit 57 Holzschnitten. 1867. 3 Thlr.

2. - 1. Abtheil. **Morphologie** und **Physiologie der Pilze, Flechten** und **Myxomiceten** von Dr. A. de Bary. Mit 101 Holzschn. u. 1 Kupfertafel. 1866. 2 Thlr. 16 Ngr.

4. - Handbuch der **Experimentalphysiologie der Pflanzen.** Untersuchungen über die allgemeinsten Lebensbedingungen der Pflanzen und die Functionen ihrer Organe. Von Jul. Sachs. Mit 53 Holzschnitten. 1865. 3 Thlr. 20 Ngr.

---

# CATALOGUS
## PLANTARUM CUBENSIUM

exhibens collectionem Wrightianam aliasque minores ex insula Cuba missas quas recensuit
**A. Grisebach,** Prof.

8. 1866. br. 2 Thlr. 20 Ngr.

---

## Beiträge
# zur Pflanzenphysiologie

von
**Dr. Alb. B. Frank.**

I. Ueber die durch die Schwerkraft verursachten Bewegungen von Pflanzentheilen.
II. Ueber die Entstehung der Intercellularraeume der Pflanzen.

Mit 5 lithogr. Tafeln. gr. 8. 1868. br. 1 Thlr. 10 Ngr.

---

## Reform
# Deutscher Brombeeren.

Beiträge
zur Kenntniss der Eigenschaften der Arten und Bastarde des Genus Rubus L.
Von
**Otto Kuntze.**

8. 1867. br. 1 Thlr. 10 Ngr.

---

Druck von Breitkopf und Härtel in Leipzig.

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google